

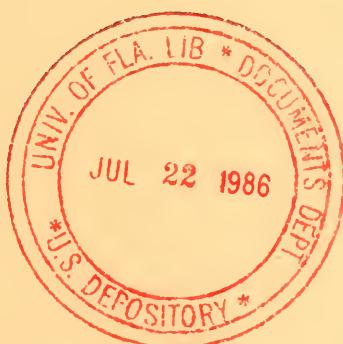
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# PANAMA CANAL COMMISSION

# ANNUAL REPORT



FISCAL YEAR ENDED SEPTEMBER 30, 1985





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# PANAMA CANAL COMMISSION

Balboa, Republic of Panama  
OFFICE OF THE ADMINISTRATOR

FROM THE ADMINISTRATOR

It is a pleasure to submit the annual report of the Panama Canal Commission, for fiscal year 1985.

At the end of this fiscal year, the sixth year of operation of the Panama Canal Commission, the Canal remains in excellent operating condition and its facilities and equipment continue to be improved and modernized. Traffic passing through the waterway showed a modest improvement with an increase in oceangoing transits to 31.9 ships per day from 31.1 per day in 1984. Both Panama Canal net tonnage and tolls revenue rose 4 percent from FY 1984 levels.

Projects of major significance to Canal customers completed or underway during the year included: overhaul of Gatun Locks miter gates and installation of lateral culvert bulkhead slots, construction of a vessel tie-up station in Gaillard Cut, upgrading of the Marine Traffic Control vessel monitoring system, rehabilitation of the locks fire fighting system, conversion of Canal buoys to conform to international standards, widening of Bohio Curve in Gatun Lake, enhancement of Commission reservoir management and weather monitoring capabilities, and the awarding of a contract for three new towing locomotives.

The performance of the Commission in accomplishing these and other multifaceted modernization and maintenance programs under the challenging conditions of treaty implementation demonstrates that a skilled and capable work force has been retained to operate the Canal. To ensure that the necessary strengths are available in the critical years ahead, training programs continue to receive high priority, with a major emphasis on increasing the participation of qualified Panamanians commensurate with Treaty requirements. Panamanians now compose 80 percent of the permanent Commission work force with many occupying key management and supervisory positions throughout the organization.

As we look to the future, I am certain that the spirit of cooperation and commitment evident in the Commission work force will enable the Panama Canal to meet the rapidly changing demands of the maritime industry.



D. P. McAULIFFE,  
*Administrator.*

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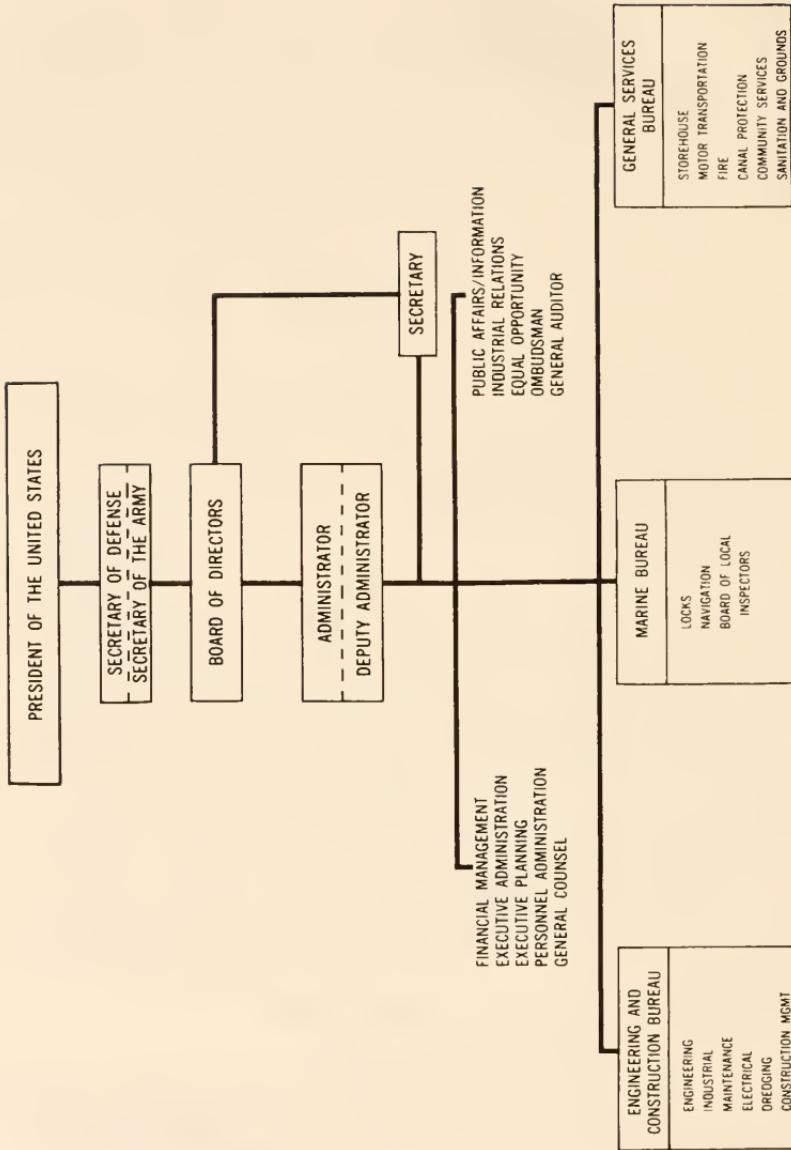
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PANAMA CANAL COMMISSION



## **INTRODUCTION**

### **ORGANIZATION**

The Panama Canal Commission is an agency of the Executive Branch of the United States Government, provided for by the Panama Canal Treaty of 1977, and established by the Panama Canal Act of 1979 (93 Stat. 452; 22 U.S.C. 3601 et seq), enacted September 27, 1979. The authority of the President of the United States with respect to the Commission is exercised through the Secretary of Defense and the Secretary of the Army. The Commission is supervised by a nine-member Board. Five members are nationals of the United States and four are Panamanians. Board members who are U.S. nationals are appointed by the President with the advice and consent of the Senate.

The Commission was established to carry out the responsibilities of the United States with respect to the Panama Canal under the Panama Canal Treaty of 1977. In fulfilling these obligations, the Commission manages, operates, and maintains the Canal, its complementary works, installations, and equipment, and provides for the orderly transit of vessels through the Canal. The Commission will perform these functions until the treaty terminates on December 31, 1999, when the Republic of Panama will assume full responsibility for the Canal.

The Commission is expected to recover through tolls and other revenues all costs of operating and maintaining the Canal, including interest, depreciation, capital for plant replacement, expansion and improvements, and payments to the Republic of Panama for public services and annuities, in accordance with paragraph 5 of Article III and paragraphs 4(a) and (b) of Article XIII, respectively, of the Panama Canal Treaty of 1977. Revenues from tolls and all other sources are deposited in the U.S. Treasury in an account known as the Panama Canal Commission Fund. Appropriations for operating expenses and capital improvements are enacted annually by the Congress and are limited to the sum of the estimated receipts for the year, plus any unexpended balances in the Panama Canal Commission Fund.

### **THE CANAL**

The Panama Canal is a lock-type canal approximately 51 miles long from deep water to deep water. The minimum width of the navigable channel is 500 feet. Navigable channel depth varies according to the

amount of water available in Canal storage areas. The normal range of permissible transit draft is from 38 feet to 39 feet 6 inches tropical fresh water.

Vessels transiting the Canal are raised in three steps to the level of Gatun Lake, the principal source of Canal water, then lowered to sea level again in three steps. The three sets of Canal locks are paired so as to permit simultaneous lockage of two vessels in the same direction or in opposite directions.

Since August 15, 1914, the official date of its opening, the Panama Canal has served world trade virtually without interruption. Through this fiscal year, a total of 650,799 vessels of all types have transited with 546,084 or 83.9 percent of the total being of the oceangoing commercial class.

### TOLLS RATES

Panama Canal tolls rates were increased approximately 9.8 percent on March 12, 1983. Tolls rates are: (a) On merchant vessels, Army and Navy transports, tankers, hospital ships, supply ships, and yachts, when carrying passengers or cargo: \$1.83 per net vessel ton of 100 cubic feet of actual earning capacity. Such tonnage is determined in accordance with the "Rules of Measurement of Vessels for the Panama Canal;" (b) on such vessels in ballast, without passengers or cargo: \$1.46 per net vessel ton; and (c) on other floating craft: \$1.02 per ton of displacement.

By treaty, the United States continues to provide to Colombia free transit through the Canal of its troops, materials of war, and ships of war.

**BOARD OF DIRECTORS**  
**Ending Fiscal Year 1985**

Honorable WILLIAM R. GIANELLI,  
*Chairman, Board of Directors*  
*Panama Canal Commission*  
2000 L Street, NW., Suite 550  
Washington, D.C. 20036

Honorable LUIS A. ANDERSON  
*Secretary General*  
*Interamerican Regional Labor*  
*Organization*  
Mexico, D.F.

Honorable JOHN A. BUSHNELL  
*Deputy Chief of Mission*  
U.S. Embassy  
Buenos Aires, Argentina

Honorable FERNANDO CARDENAS  
Panama, Republic of Panama

Honorable ANDREW E. GIBSON  
Short Hills, New Jersey

Honorable OYDEN ORTEGA  
Panama, Republic of Panama

His Excellency CARLOS OZORES  
Panamanian Ambassador to Spain  
Madrid, Spain

Honorable WILLIAM SIDELL  
Poway, California

Honorable WILLIAM W. WATKIN, Jr.  
Beaufort, South Carolina

**Executive Committee**

Honorable WILLIAM R. GIANELLI,  
*Chairman*  
Honorable FERNANDO CARDENAS  
Honorable OYDEN ORTEGA  
Honorable WILLIAM SIDELL  
Honorable WILLIAM W. WATKIN, Jr.

**Cut Widening Feasibility Committee**

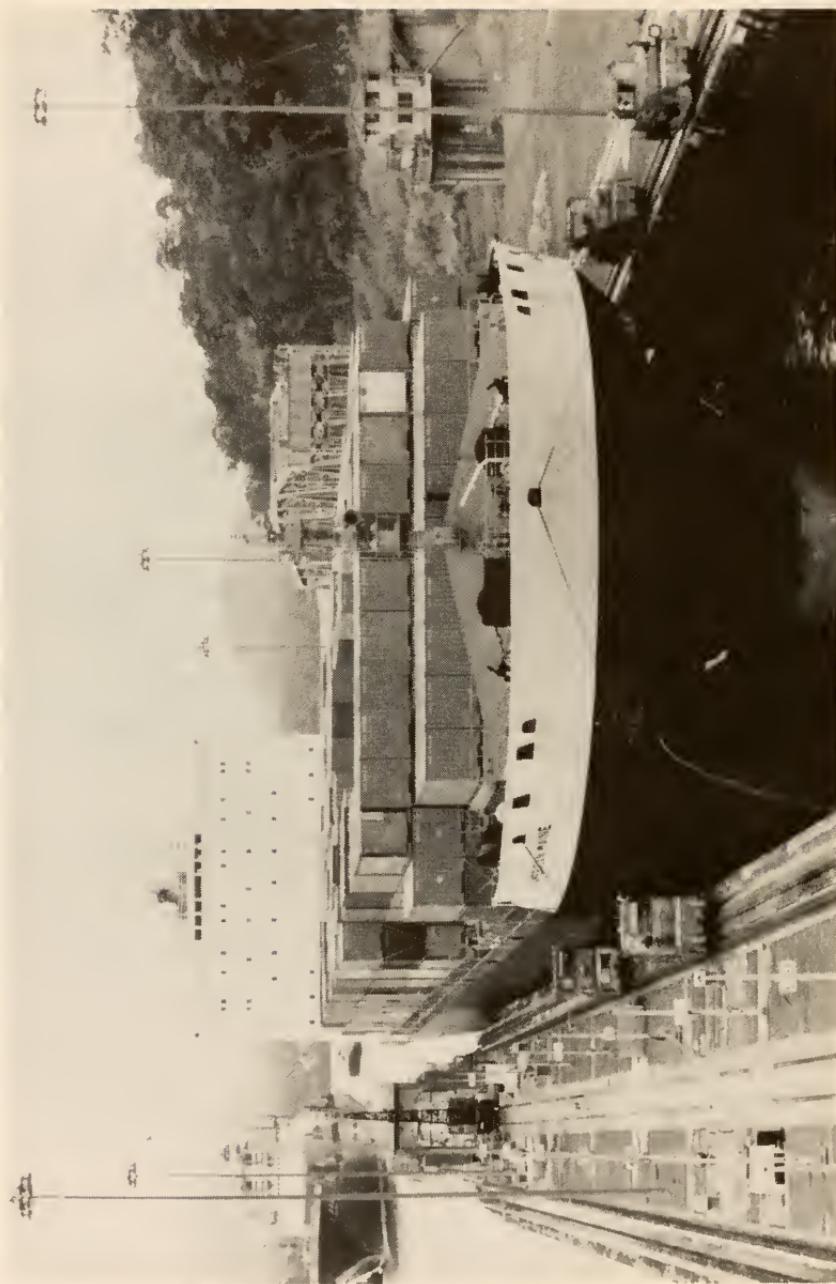
Honorable FERNANDO CARDENAS,  
*Chairman*  
Honorable ANDREW E. GIBSON  
Honorable OYDEN ORTEGA  
Honorable WILLIAM W. WATKIN, Jr.

**OFFICIALS IN THE REPUBLIC OF PANAMA**

*Administrator* ..... Honorable D. P. McAULIFFE  
*Deputy Administrator* ..... Honorable FERNANDO MANFREDO, Jr.

**OFFICIALS IN WASHINGTON, D.C.**

*Secretary* ..... MICHAEL RHODE, Jr.



The "American Maine," a very large container ship (949.8 ft. length by 105.8 ft. beam), is shown entering the West Lane of Miraflores Locks on a Northbound transit.

# *Chapter I*

## CANAL TRAFFIC

### TRAFFIC

Most elements of Canal traffic improved from prior year levels during fiscal year 1985. Cargo shipments through the Canal, however, decreased relative to the prior year. The gains in traffic without growth in cargo were primarily due to a rise in average ship size and an increase in low density commodities.

Oceangoing transits in fiscal year 1985 increased 2.4 percent to 11,654 or 31.9 vessels daily from 11,384 or 31.1 daily the prior year. Vessels owned or operated by the U.S. Government and free Colombian and Panamanian Government vessels made 139 transits during the year compared with 154 transits in fiscal year 1984.

Average ship size increased during fiscal year 1985 primarily as a result of transits by large, third generation container vessels deployed in new, round-the-world services. The increase was particularly concentrated in vessels with beams of 100 feet and over. Transits in this size category rose 9.8 percent to 2,382 or 20.4 percent of total oceangoing transits from 2,170 or 19.1 percent of total oceangoing transits in fiscal year 1984. Transits by vessels having beams of 80 feet and over accounted for 5,514 or 47.3 percent of total oceangoing transits compared with 5,496 or 48.3 percent of total oceangoing transits in the prior year. Average size of oceangoing commercial vessels, in terms of Panama Canal net tonnage, rose to 14,676 tons in fiscal year 1985 from 14,461 tons in 1984.

Total Panama Canal net tonnage increased 4.0 percent to 170.3 million in fiscal year 1985 from 163.8 million tons in the prior year. Correspondingly, tolls revenue rose 4.0 percent to \$300.8 million from the \$289.2 million in 1984.

A two-year summary of the principal elements of Canal traffic and tolls revenue is shown in the following table:

## COMPARATIVE HIGHLIGHTS OF OPERATIONS

	Fiscal year	
	1985	1984
Oceangoing transits:		
Commercial .....	11,515	11,230
U.S. Government .....	129	137
Free .....	10	17
Total .....	<u>11,654</u>	<u>11,384</u>
Daily average.....	31.9	31.1
Small transits:		
Commercial .....	793	802
U.S. Government .....	273	241
Free .....	46	96
Total .....	<u>1,112</u>	<u>1,139</u>
Total cargo:		
Commercial .....	138,643,711	140,471,470
U.S. Government .....	259,524	329,607
Free .....	23	59
Total .....	<u>138,903,258</u>	<u>140,801,136</u>
Total Panama Canal net tons and reconstructed displacement tonnage .....	170,338,118	163,833,672
Transit revenue:		
Commercial tolls .....	\$298,562,452	\$286,754,765
U.S. Government tolls .....	<u>2,236,404</u>	<u>2,400,270</u>
Tolls revenue .....	<u>\$300,798,856</u>	<u>\$289,155,035</u>
Harbor pilotage, tug, launch, and other services .....	\$61,824,017	\$58,931,942
Total transit revenue .....	<u>\$361,824,017</u>	<u>\$348,086,977</u>

## COMMODITIES AND TRADE ROUTES

Oceangoing commercial cargo totaled 138.6 million long tons during fiscal year 1985, with twelve key commodity groups accounting for 85.0 percent of that total. The groups, shown on page 10, have maintained relatively stable levels of importance to Canal traffic in recent years. In fiscal year 1984, the proportion observed for these commodity groups was 86.2 percent.

Despite a decline in petroleum and petroleum products, this commodity group continued to rank as the principal trade in fiscal year 1985, accounting for 19.3 percent of total oceangoing commercial cargo. The tonnage in this group totaled 26.8 million long tons, down by 12.7 percent from 30.7 million long tons the prior year. The petroleum and products movement at the Canal has been affected by sluggish conditions in these markets. Crude oil totaled 12.4 million tons, dropping 12.7 percent from

14.2 million long tons in fiscal year 1984 and petroleum products, at 14.4 million tons, registered a 12.7 percent decline from 16.5 million tons.

Grain was the second commodity group in fiscal year 1985, accounting for 17.0 percent of commercial cargo. Grain shipments totaled 23.5 million long tons, down 16.4 percent from the already depressed 28.1 million tons registered in fiscal year 1984. All components of the group, except oats and sorghum, showed decreases. The largest decline was reflected in the wheat tonnage which dropped 39.8 percent to 5.4 million long tons from the 9.0 million tons in the prior year. A number of factors accounted for the lower tonnage in the grain trade, particularly a smaller share of U.S. exports in Far East markets. Increased competition from countries such as Argentina and Australia, at the same time that some major importing countries have achieved self-sufficiency in certain grains, are factors which affected U.S. grain exports. An additional factor behind the drop in the Canal grain trade was the shift of U.S. export grain to West Coast ports, promoted by very low rail rates. Grain shipments from the U.S. to the Far East constituted 83.7 percent of the total movement, with Japan, Taiwan and China being the principal destinations.

A significant improvement was observed in the nitrates, phosphates and potash group in fiscal year 1985. This commodity group increased 20.2 percent to 11.9 million long tons from 9.9 million tons in 1984, gaining the third place in Canal major commodity groups. This trade accounted for 8.6 percent of total oceangoing commercial cargo.

Shipments of coal and coke increased 15.0 percent to 11.5 million long tons from 10.0 million tons the prior year, reversing a downward trend which began in 1983. Most of the increase was due to higher shipments to the Far East and Europe. Coal shipments to Japan, however, dropped 14.4 percent to 4.8 million long tons in fiscal year 1985, reflecting a declining U.S. market share in Japanese imports and increases in U.S. coal exports bypassing the Canal.

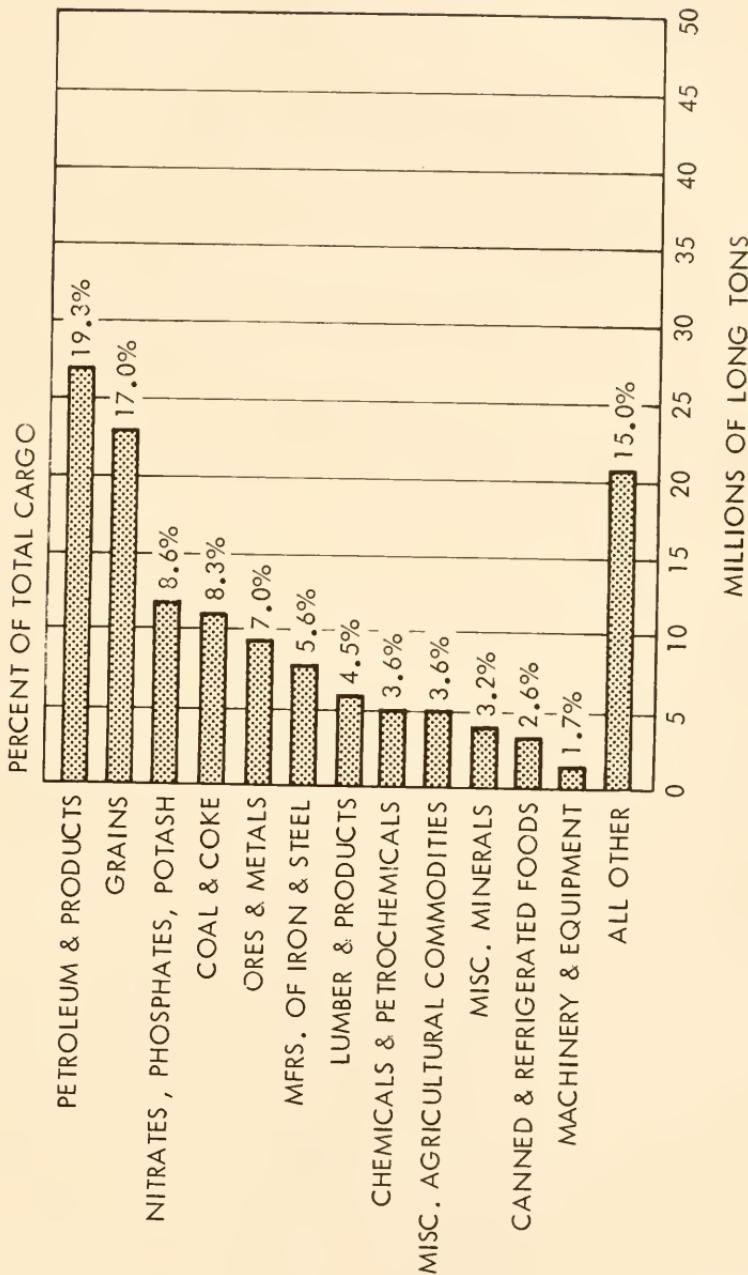
Other commodity groups experiencing gains during the year were ores and metals, which rose 11.5 percent to 9.7 million long tons; manufactures of iron and steel, which increased 6.9 percent to 7.8 million long tons; miscellaneous minerals, which rose 12.8 percent to 4.4 million long tons; canned and refrigerated foods, which rose 12.1 percent to 3.7 million long tons; and machinery and equipment, which was up by 9.1 percent to 2.4 million long tons.

Canal trades registering decreases during the year were lumber and products, which dropped 3.1 percent to 6.2 million long tons; chemicals and petrochemicals, which dropped 3.9 percent to 5.0 million long tons; and, miscellaneous agricultural commodities, which dropped 10.7 percent to 5.0 million long tons.

Trade between the East Coast of the United States and Asia remained the leading route in Canal traffic, with nearly 38.0 percent of total commercial cargo shipped over this route. The total cargo tonnage plying the U.S. East Coast-Asia route declined again this year, however, from 55.2 million long tons to 52.2 million tons, a drop of 5.4 percent.

The following chart and table show the principal commodity groups moving in oceangoing commercial vessels in 1985 and a comparison of the major trade routes in fiscal years 1985 and 1984.

PRINCIPAL COMMODITY GROUPS  
TRANSITING THE CANAL  
OCEANOING COMMERCIAL CARGO FY 1985



**Major Voyage Trade Routes in Canal Traffic**

	Fiscal year		<i>Percent of Increase or (Decrease)</i>
	1985	1984	
<i>Trade Route</i>	<i>Panama Canal Net Tons</i>	<i>Panama Canal Long Tons Cargo</i>	<i>Panama Canal Long Tons Cargo</i>
East Coast United States-Asia .....	63,702	52,190	62,802 55,229 1.4 (5.5)
East Coast United States-West Coast South America .....	17,627	11,693	17,039 13,379 3.5 (12.6)
East Coast United States-West Coast United States-Canada .....	14,473	14,228	14,339 14,288 0.9 (0.4)
Europe-West Coast United States-Canada .....	9,561	6,216	7,350 4,704 30.1 32.1
Europe-West Coast South America .....	4,995	2,556	4,029 2,143 24.0 19.3
West Indies-Asia .....	4,793	3,770	5,320 4,464 (9.9) (15.5)
U.S. Intercoastal (including Alaska and Hawaii),			
East Coast Canada-Asia .....	4,739	3,779	5,002 4,281 (5.3) (11.7)
East Coast Canada-South America .....	4,614	4,495	4,944 4,119 (6.7) 9.1
West Indies-West Coast South America .....	4,313	5,058	4,218 4,864 2.3 4.0
East Coast United States-Canada-Oceania .....	4,010	3,743	4,442 4,120 (9.7) (9.2)
Central American Intercoastal .....	4,024	3,014	2,360 1,948 70.5 54.7
Asia-Europe .....	2,983	2,178	3,109 2,343 (4.1) (7.0)
Europe-Oceania .....	139,834	112,920	134,954 115,882 3.6 (2.6)
Subtotal .....	29,107	25,723	27,381 24,589 6.3 4.6
All other routes .....	168,941	138,643	162,335 140,471 4.1 (1.3) <hr/>
Total .....			





A berthing operation in progress at the new Tie-Up Station—recessed in the West Bank of the Canal—North of Pedro Miguel Locks.

# *Chapter II*

## CANAL OPERATIONS

Canal operations are comprised of Transit Operations and Maintenance and Related Canal Projects. The various functions are divided among a number of operating bureaus within the Canal agency.

### TRANSIT OPERATIONS

Daily average transits by oceangoing vessels increased from the 31.1 per day during fiscal year 1984 to 31.9 per day during fiscal year 1985. Average time in Canal waters increased from 23.3 hours in fiscal year 1984 to 23.9 hours in fiscal year 1985.

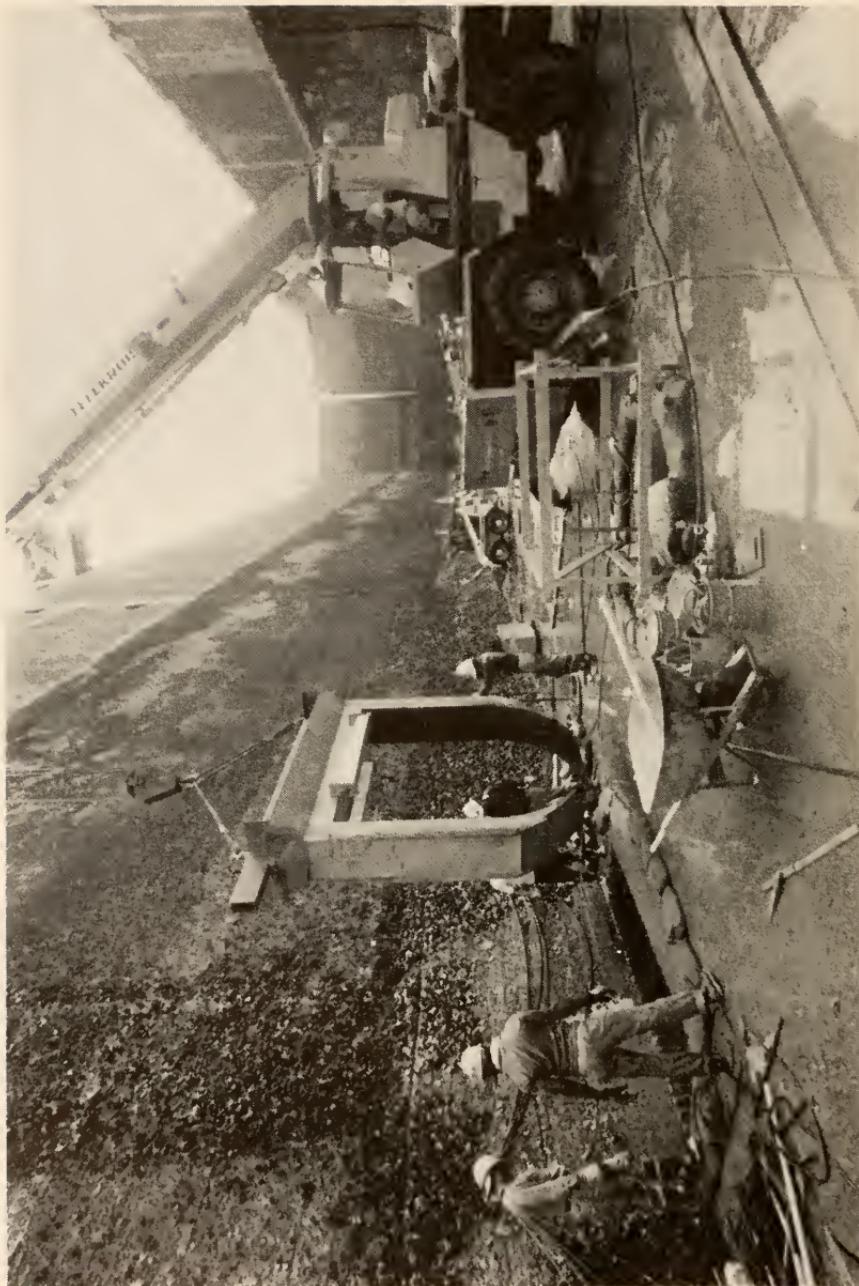
Fiscal year	Vessels of 600-foot length and over	Percent of total oceangoing transits	Vessels of 80-foot beam and over	Percent of total oceangoing transits
1985 .....	3,862	33.1	5,514	47.3
1984 .....	3,865	33.9	5,496	48.3
1983 .....	4,157	35.1	5,869	49.5
1982 .....	5,534	39.1	7,226	51.1
1981 .....	4,855	34.7	6,364	45.5
1980 .....	4,598	33.8	6,089	44.7
1979 .....	4,089	31.3	5,503	42.1

The number of vessels transiting at more than 36-foot drafts decreased 9.6% during FY 1985 with 1,468 vessels transiting the Canal compared to 1,623 last year.\* The maximum allowable draft remained at 39 feet 6 inches during the entire fiscal year.

Total jobs performed by Commission tugs increased from 33,796 in fiscal year 1984 to 34,209 in fiscal year 1985.

	Fiscal year	
	1985	1984
Oceangoing transits .....	11,654	11,384
Tug jobs:		
Balboa .....	22,991	23,242
Cristobal .....	11,218	10,554
Tug operating hours .....	54,889	55,675

\* Changed from 1,715 to 1,623.



A "lateral culvert bulkhead slot frame" is shown being placed into the locks floor at the base of the center wall, during the Gatun Locks overhaul.

## MAINTENANCE AND RELATED CANAL PROJECTS

Dredging activities continued throughout the fiscal year and May of 1985 saw the completion of the channel deepening project, thereby providing the additional water necessary to virtually guarantee a year-round maximum draft of 39.5 feet for transiting vessels. During FY 1985, the dredges *Mindi* and *Christensen* excavated more than 1.3 million cubic yards of earth and rock.

The Bohio Curve Widening Project is proceeding on schedule. Land drilling and blasting was completed in mid-August and dredging operations are scheduled to begin in mid FY 1986. During FY 1985, the Panama Canal lateral navigational aids system was changed to conform to the International Association of Lighthouse Authorities (IALA) Maritime Buoyage System. Presently all lights, colors, and characteristics, as well as the color of their structures, conform to the IALA System.

Between October 1984 and March 1985, Miter Gates Nos. 21, 22, 23, and 24 from Gatun Locks were overhauled at the Mount Hope Industrial Division using the newly installed syncrolift. As part of the overhaul at Gatun Locks, 109 lateral culvert bulkhead slots were constructed in the east and west floors of the locks chamber. These bulkhead slots at Gatun, together with those previously installed at Miraflores and Pedro Miguel Locks, permit both lanes to remain safely in service during inspection, maintenance, or overhaul of the center and sidewall culverts. Other important maintenance work included continued efforts on the replacement and rehabilitation of the towing locomotive track system, the fendering system at Gatun Locks, and reactivation of the SIP-3 fire protection system at all three locks.

In February 1985, work began on a major modernization of the Dredge MINDI to replace the old spud-maneuvering system with a new hydraulic system mounted on a barge attached to the stern of the dredge. In addition, the cutter motor will be changed to a 900 HP unit and the main power system will be centralized. The overall cost of this project will be approximately \$3.6 million and will bring the capability of this 1937 dredge up to that of any modern dredge of its size and type.

In a continuing effort to upgrade the Commission's hydroelectric generation facilities, a new design turbine runner was installed in units No. 2 and No. 3 at Madden Dam Power Plant. The new design will reduce recurring cavitation damage repair costs and provide higher power output at high lake levels from the recently rewound and uprated generators. This work completes the project, begun in fiscal year 1984, to replace the turbine runners in all three Madden Dam units. Installation of the new Supervisory Control and Data Acquisition System (SCADA) for electrical power dispatching is progressing satisfactorily and is scheduled to be in full operation by the end of fiscal year 1986.

A solicitation for proposals to replace and upgrade the Commission telephone system was issued on July 10, 1985. The new system will replace obsolete, worn electromechanical switching equipment and provide all Commission facilities the opportunity to integrate both voice and data telecommunication services. This multi-year contract, the first of its type to

be approved by GSA for the Commission, is scheduled to be awarded in fiscal year 1986.

A new hydrographic station was constructed on the Piedras River above the Madden Reservoir to provide additional river elevation and rainfall data for early warning flood control operations. Because of the remoteness of the station, its construction required extensive helicopter support. Rio Piedras is the newest of a 30 station hydrographic network located throughout the Canal watershed.

Construction of the Vessel Tie-Up Station has been completed and the facility was accepted by the Commission on August 19, 1985. This station, located on the west bank of Gaillard Cut just north of Pedro Miguel Locks, increases lockage through-put by making it possible to moor northbound vessels awaiting transit of Gaillard Cut.

In other transit-related work, development efforts continued on the Commission's new computerized Marine Traffic Control System. This system, which will provide a major enhancement of vessel traffic management capabilities at the Panama Canal, is expected to come on line during the first quarter of FY 1986.

Miscellaneous maintenance work during the 1985 fiscal year included preparation of over 200 housing units to ensure minimum standards of safety, serviceability, and sanitation prior to their transfer to Panama. In addition, repair work on two major holes in Miraflores and Pedro Miguel locks walls was completed and a towing locomotive turntable installed on the centerwall of Miraflores Locks.

# *Chapter III*

## **SUPPORTING OPERATIONS**

Supporting operations of the Panama Canal Commission provided essential support services to the operation and maintenance of the waterway and the Agency's facilities, as well as to other U.S. agencies on the Isthmus and to employees and their dependents. These operations included logistical services, employee services, sanitation and grounds management, transportation facilities, public utilities, fire protection, Canal protection, health and safety, and library services.

### **LOGISTICAL SERVICES**

The Storehouse Division provided centralized procurement, inventory management, warehousing, distribution, contract administration, and supply and property disposal support to Canal operations. A total of \$66.6 million in goods and services were procured during fiscal year 1985, including \$22.0 million from sources in Panama. Major contracting obligations included approximately \$9.2 million for Bunker "C" fuel and \$5.1 million for Navy special fuel for thermoelectric power generation, \$4.7 million for light diesel fuel for floating equipment, \$1.0 million for premium gasoline, \$1.4 million for a split-hull dump barge, and \$4.0 million for three locks towing locomotives.

Approximately \$17.9 million in Commission inventory items were issued for Commission use, and \$19.1 million was obligated for new inventory purchases during the year. A total inventory of 38,573 line items with an average landed cost value of \$28.0 million was on hand at year end.

Activities of the Excess Disposal Branch included no-cost transfers to other U.S. Government agencies of excess equipment having an original acquisition value of approximately \$899,814, while surplus property sold to the Government of Panama at fair market value amounted to approximately \$75,000.

The Logistical Support Branch in New Orleans, LA., expedited urgent purchases and coordinated all Commission cargo shipments from the United States to Panama. Under the coverage of the Military Sealift Command's contract, 12,100 measurement tons of containerized and breakbulk cargo were shipped to the Port of Balboa. An additional 3,550

tons of general cargo and vehicles were shipped under commercial contract with an ocean freight shipper from New Orleans to Las Minas, Republic of Panama.

### COMMUNITY SERVICES

During fiscal year 1985, the Community Services Division managed employee housing, Commission-owned buildings, library services, and the employee fitness program for the agency.

Housing expenditures were concentrated on programs for preventive maintenance and repairs, quarters energy conservation, and enhancing the physical security of quarters used by the Commission. The agency continued its multiyear housing management plan designed to concentrate its diminishing housing requirements in selected core areas. Implementation of the plan is enabling the Commission to utilize housing and related maintenance resources in the most cost-effective manner, while at the same time preserving optimum housing accommodations for its eligible employees and meeting its ongoing responsibilities under the Panama Canal Treaty. From March to June, 1985, the Commission transferred an additional 500 housing units, excess to its needs, to the Republic of Panama. At the end of the fiscal year, the agency retained the use of 1,895 housing units for its United States-citizen and other eligible employees. This represented 44% of the inventory of approximately 4,300 units owned by the Panama Canal Company immediately prior to entry into force of the Panama Canal Treaty in 1979, indicating that a total of 56% of those units have been transferred in use to Panama in six years.

The buildings management activity, which is responsible for the maintenance and operation of Commission buildings and structures (not specifically assigned to other Commission units) and for a centralized custodial service, transferred 14 non-residential buildings no longer required by the Commission to the Republic of Panama. The Community Services Division was designated as the agency's coordinator for the implementation of Executive Order 12411 and Temporary Regulation D-71 for efficient space management.

Library Services provided mission-support information and research to all units of the Commission and maintained a collection of library and three-dimensional materials relating to the history of the Panama Canal. The division also administered a variety of duty-related as well as off-duty fitness programs and facilities for Commission employees and their dependents.

### SANITATION AND GROUNDS MANAGEMENT

Approximately 2,900 acres of improved grounds were maintained within and around Commission residential areas, buildings, and the locks and industrial facilities. Vegetation control was maintained by Grounds Management Branch crews along utility line rights-of-way, earthen saddle dams, Gatun Dam, Canal bank stability drainage systems, and around the perimeters of aids to navigation towers and targets. Close coordination

with Panama officials in the transfer of responsibility for grounds care, resulted in a smooth transition of services in connection with the transfer of large blocks of Commission quarters and buildings in Coco Solo, Ancon, and other areas.

Environmental health services essential to maintain public health in the Panama Canal area were furnished by the Sanitation Management Branch. Surveillance and control of biting insects and vermin capable of transmitting disease were continued in the Canal Area with emphasis on non-chemical control methods such as drainage maintenance in lieu of extensive dispersals of chemical insecticides. Some 220 miles of surface water drainage ditches were maintained to eliminate mosquito breeding around employee work and housing areas. Requirements of specialized mosquito control measures continue to be necessary for the prevention of such major insect-borne tropical diseases as malaria, yellow fever, and dengue. Additional control efforts were directed against cockroaches, house flies, bats, rats, venomous snakes and other vermin.

Africanized honeybees continue to present ongoing problems within residential areas, at Canal work sites and on vessels transiting Canal waters. A total of 923 swarms and nests of Africanized bees were destroyed in a cooperative effort between Commission and U.S. military bee control teams this fiscal year, a 25 percent increase over the previous year's total. Nests have become more numerous and several severe stinging incidents have occurred, but no human deaths have yet occurred. Commission bee control teams handled 20 swarms on board transiting ships during the year, as compared to 12 incidents last year. A recent inadvertent introduction of Africanized bees into the central valley of California by an infested shipping container emphasizes the continuous need to provide effective bee control and maritime quarantine at the Panama Canal.

The Commission's Pacific and Atlantic sanitary landfill refuse disposal facilities handled 76,000 tons of refuse over the past year. Of the two sites, the Atlantic landfill is unique in that for the past 45 years, it has been utilized to receive all municipal refuse from the Colon metropolitan area and the U.S. military bases, in addition to that of the Commission's residential areas and Panama Canal work sites.

## TRANSPORTATION FACILITIES

The Motor Transportation Division operated and maintained a consolidated motor pool of 866 vehicles designed to meet the vehicular transportation requirements of the Commission. The vehicle fleet in fiscal year 1985 included 602 trucks of various types, 208 passenger-carrying vehicles, and 56 special-purpose vehicles. Vehicle mileage decreased slightly from 7,170,000 miles in fiscal year 1984 to 7,056,706 miles in fiscal year 1985. Fully equipped shops, including a tire retreading facility and heavy duty repair shops, provided facilities for overhauls, maintenance and repairs to the Motor Transportation Division fleet and equipment of other Commission units. In addition, some services were contracted out where they were available in required quantity and quality in Panama. The

vehicle inspection facility located within the Motor Transportation Division, Ancon area garage, also was used by the Government of Panama to conduct inspections of privately-owned vehicles and by the Motor Transportation Division to perform Commission vehicle inspections.

## PUBLIC UTILITIES AND ENERGY

Panama Canal Commission facilities include electric power generation and distribution systems, communication systems, water purification and distribution systems, and a central chilled water air conditioning system for certain public buildings on the Pacific side.

Total Canal area energy demand during fiscal year 1985 was 497 gigawatt hours, a 7.5 percent decrease from the 533 gigawatt hours used last year. The peak hourly demand of 81 megawatts reached on May 3, 1985, was 3.6 percent below the peak of 84 megawatts in the prior year. Agency-directed energy consumption in fiscal year 1985 for electrical power and fuel, calculated together in Btu's, was reduced a total of 28.9 percent in relation to the fiscal year 1975 baseline established by the Federal Energy Management Program. Electrical power consumption by the Commission, 71.6 gigawatt hours, was 3.7 percent below the usage levels recorded for comparable operations in fiscal year 1975; fuel consumption, excluding fuel for power generation, 3.9 million gallons, was 49.4 percent below the corresponding 1975 fiscal year baselines.

The water treatment and distribution systems operated by the Commission provide potable water for the Canal area and areas of the Republic of Panama. The Pacific side system serves the Canal area, Panama City, and suburban areas; and the separate Atlantic side system serves the Canal area, the city of Colon, and suburban areas. During fiscal year 1985, the two systems supplied 3,182 million cubic feet of potable water to consumers, a decrease of about 0.4 percent from the previous year. Water consumed by Panama City and Colon metropolitan areas amounted to approximately 51.1 million gallons per day.

## FIRE PROTECTION

The Panama Canal Commission Fire Division, in conjunction with the Republic of Panama Fire Corps, is responsible for providing fire protection, firefighting, and rescue operations in Canal operating areas, defense sites, civilian and military areas of coordination, and shipboard firefighting on all vessels in Canal waters.

During fiscal year 1985, there were 758 fires (excluding ships), causing a loss of \$385,892 as compared to 563 fires during fiscal year 1984 which resulted in a loss of \$384,952. There were 20 ship fires during this year versus 17 in the previous year. Ship fire losses in fiscal year 1985 were \$353,405 as compared to \$243,112 the year before. A variety of hazardous materials type emergency responses totaled 64. Ship hazardous cargo stand-bys and marine/dock emergencies totaled 811.

## CANAL PROTECTION

The Canal Protection Division is responsible for providing plant protection and physical security for Panama Canal Commission vital installations and facilities devoted to the operation, maintenance, and management of the Panama Canal. Physical security improvement projects continued during the fiscal year in accordance with the program designed to upgrade security systems and hardware and will continue over the next several years. In addition, a new in-service employment concept for filling guard vacancies began during the year using the upward mobility program, which should improve the quality of guard personnel and help reduce turnover.

## HEALTH AND SAFETY

The Occupational Health Division and the Safety Division are components of the Office of Personnel Administration. The Personnel Director is the Designated Agency Safety and Health Official.

During fiscal year 1985, the Commission experienced 748 performance-of-duty accidents in which the employees required medical attention beyond first aid, as compared to 675 such accidents in fiscal year 1984. Though the incident rate rose from 7.7 in fiscal year 1984 to 9.1 per 200,000 man-hours worked in fiscal year 1985, there were no fatalities recorded in fiscal year 1985, as compared to the ten experienced in fiscal year 1984. The sharp decline in fatal accidents can be attributed in part to intensified safety and health awareness, increased training and publicity, issuance and implementation of various new criteria and policies covering safe and healthful work practices and use of protective equipment, such as safe PCB handling, working in confined spaces, and mandatory seat belt use. Additionally, the Commission's alcohol and drug abuse rehabilitation program was strengthened through increased emphasis on counseling abusers, thereby serving to further ensure a safe working environment.



# *Chapter IV*

## **ADMINISTRATION AND STAFF**

### **PERSONNEL FORCE EMPLOYED AND RATES OF PAY**

At the end of fiscal year 1985, the total Isthmian force of the Commission was 8,435 compared to 8,090 employees in fiscal year 1984. Approximately 82 percent of the 1985 Isthmian force was comprised of Panamanians; 2 percent of third country nationals; and the remaining 16 percent of U.S. citizens. Of the total Isthmian force, 7521 were permanent and 914 temporary. There was a U.S. Coast Guard officer assigned to the Commission on the Isthmus. In addition, fourteen persons, all U.S. citizens, were employed by the Commission in New Orleans and Washington, D.C.

Rates of pay were based on a U.S. Wage Base for positions which historically have been hard to fill, and on a Canal Area Wage Base for other occupational categories. Although originally scheduled for elimination in October 1985, the last step of a three-stage plan to phase out the New Wage System was for various administrative reasons implemented on September 29, 1985; this eliminated the remaining difference between the New Wage System and pre-treaty wage schedules. The following table shows the Commission civilian permanent Isthmian work force by citizenship and wage base.

<i>Fiscal Year 1985</i>	<i>U.S.</i>	<i>Non-U.S.</i>	<i>Total</i>
Canal Area Wage Base .....	119	4,221	4,340
U.S. Wage Base .....	1,221	1,960	3,181
Total .....	<u>1,340</u>	<u>6,181</u>	<u>7,521</u>

The total Commission payroll was \$182.7 million in fiscal year 1985 compared to \$178.3 million in fiscal year 1984. Of the total Commission fiscal year 1985 payroll, \$118.5 million was paid to non-U.S. citizen employees and \$64.2 million to U.S. citizen employees.

## EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

Between fiscal year 1984 and 1985, the number of EEO complaints formally filed with the Agency continued to decrease. A breakdown, by citizenship grouping, of formal complaints filed with the Agency during fiscal years 1984 and 1985 follows:

	Citizenship Group	Fiscal year	
		1985	1984
United States .....		6	4
Non-United States .....		0	4
Total .....		6	8

This continuing decrease in the number of EEO complaints reflects the growing number of employees utilizing the grievance procedures negotiated under the Agency's collective bargaining agreements.

Panamanians continued to increase as a percentage of total permanent work force as follows:

		Fiscal year 1985		Fiscal year 1979	
		1985	(%)	1979	(%)
United States Citizens .....		1,354	(18.0%)	2,105	(26.4%)
Panamanian Citizens .....		6,000	(79.6%)	5,523	(69.2%)
Third Country Nationals .....		181	(2.4%)	350	(4.4%)
Total .....		7,535	(100.0%)	7,978	(100.0%)

Over the six-year period, since October 1, 1979 through September 30, 1985, that the Panama Canal has operated under treaty mandates for increasing the participation of Panamanians, the Agency's total permanent work force decreased 5.6%, while the number of Panamanians rose by 8.6%. This trend of increased participation cuts across all wage categories and pay levels in the Agency.

Between Fiscal Years 1984 and 1985, there was little variation in composition of the total permanent work force on the basis of sex:

		Fiscal year 1985		Fiscal year 1984	
		1985	(%)	1984	(%)
Male .....		6,744	(89.5%)	6,722	(89.7%)
Female .....		791	(10.5%)	775	(10.3%)

## PUBLIC AFFAIRS

During fiscal year 1985, the Office of Public Affairs expanded its activities in support of marketing efforts and customer relations in addition to providing media coverage of Panama Commission activities locally and internationally. Through the Commission publication, Spillway, and local press releases, employees were provided information on significant milestones in treaty implementation which affected their work and daily lives as well as news of Canal operations and Commission policies.

The Graphic Branch provided support to the foregoing activities, and produced a variety of audio-visual aids, including slide briefings to assist in official orientations for visitors to the Canal; two multi-image shows, a three projector one for the topographical model at Miraflores Locks and a

12-projector one for use at local and international maritime expositions and conferences. A new information film, "The Vital Element", to stress the importance of preserving the Canal's watershed, was also produced.

During the year, the Guide Service handled a total of 280,480 visitors at Miraflores and Gatun Locks and conducted 843 VIP tours. Among the visitors were officials of the shipping industry, representatives of television networks, writers for news, travel, and shipping industry publications, producers of motion picture documentaries, and government and business officials from all over the world.

### **OMBUDSMAN**

The Office of the Ombudsman, established by the Implementing Legislation for the Panama Canal Treaty of 1977, continued to respond to employee and dependent complaints, grievances, and request for information. Generally, complaints required the Ombudsman to investigate administrative problems, inefficiencies, omissions, and policy conflicts caused within the Panama Canal Commission and other U.S. Government agencies on the Isthmus as a result of the treaty. In resolving complaints, the widest latitude possible was applied to consideration of problems affecting employee morale and quality of life.

During fiscal year 1985, over 1,962 requests for information and/or assistance were recorded by the Ombudsman. As in the previous year, the majority of the Ombudsman's work concerned Commission employees and those employees who were transferred with their functions from the Panama Canal Company/Canal Zone Government to the Department of Defense.

### **INDUSTRIAL RELATIONS**

With the exception of the pilot bargaining unit, labor-management relations within the Commission during the past year have been marked by routine contract administration activity. Communication between labor and management was generally good and unions continued to enjoy access to the Commission's top management officials. There was an increased awareness by management officials of the obligation to deal with the unions as part of the process of effecting changes in the work place. Labor-management concerns of a pressing nature received prompt attention, and resort to third party dispute resolution was minimal.

Renegotiation of the basic collective bargaining agreement between the Commission and its pilot employees, which began in February 1984 and resulted in impasse prior to the end of fiscal year 1984, was not brought to a conclusion until January of 1985. The agreement that emerged and which was imposed by the Federal Service Impasses Panel, although less generous than the prior agreement, restored a necessary balance to the relationship between the Commission and the pilots. The change, however, was not well accepted and many pilots have refused to embrace the new agreement. The result has been full resort by the union to the entire panoply of dispute

resolution machinery in a campaign against management initiatives and many aspects of the new collective bargaining agreement.

### **GENERAL COUNSEL**

Legislation has been introduced in the 99th Congress to amend the provisions of the Panama Canal Act of 1979 pertaining to vessel damage claims. This bill, H.R. 729, was passed by the House of Representatives on July 22, 1985. By the close of fiscal year 1985, the Senate Armed Services Committee had not held hearings on bill H.R. 729. This bill is virtually identical to bills introduced in both Houses of the 98th Congress, which failed to reach the floor of either House before the end of that Congressional session.

The new bill, H.R. 729, if enacted, would transfer from the Congress to the Commission the authority to settle and pay claims of more than \$120,000 for damage to vessels which occurs outside the locks of the Canal and would subject the Commission to suit on non-locks accidents by claimants who are not satisfied by the Agency's findings, determinations or awards with respect to such claims. In addition, the bill would protect the General Fund of the Treasury from liability for accidents, allow the Commission to purchase catastrophic insurance and set a time limitation on the filing of claims.

# *Chapter V*

## **FINANCIAL REPORT**

### **FINANCIAL STATEMENTS FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1985**

The financial statements of the Panama Canal Commission, appearing as Tables 1 through 6, with accompanying notes, present the financial position of the Commission at September 30, 1985, and the results of its operations for the fiscal year then ended.

The accounts and statements of the Panama Canal Commission have been examined by the Office of General Auditor of the Commission and are subject to examination by the United States General Accounting Office. Detailed audit reports of the United States General Accounting Office are directed to the Congress and are presented as Congressional documents.

Summary information concerning operating results and capital expenditures follows:

### **RESULTS OF OPERATIONS**

Net revenue from operations amounted to \$1.1 million. This amount is payable to the Government of Panama pursuant to the provisions of paragraph 4(c) of Article XIII of the Panama Canal Treaty of 1977 subject to the limitations set forth in chapter 3, subchapter V, section 1341(b)(2) of the Panama Canal Act of 1979 (Public Law No. 96-70).

### **CAPITAL EXPENDITURES**

Accrued capital expenditures for fiscal year 1985 amounted to \$29.2 million. The principal expenditures were \$4.1 million for installation of bulkhead slots at Gatun Locks, \$3.9 million for replacement of tugboats, \$2.0 million for the purchase of three split hull dump barges, \$1.7 million for the Vessel Tie-Up Station, \$1.4 million for upgrading Marine Traffic Control System, \$0.9 million for the installation of the Supervisory Control and Data Acquisition System for the Commission's power system.

**Table 1.—Statement of Financial Position**

Assets	1985	1984
<b>PROPERTY, PLANT AND EQUIPMENT:</b>		
At cost (Note 1c).....	\$896,689,808	\$888,551,801
Less accumulated depreciation and valuation allowances (Notes 1e, 2 and 3).....	<u>426,669,494</u>	<u>420,152,474</u>
	<u>470,020,314</u>	<u>468,399,327</u>
<b>CURRENT ASSETS:</b>		
Cash and fund balances (Notes 4 and 5):		
Deposit funds and undeposited receipts:		
Postal fund .....	146,195	151,542
Trust fund .....	1,172,298	521,421
Cash receipts for deposit into U.S. Treasury	<u>456,513</u>	<u>917,191</u>
	<u>1,775,006</u>	<u>1,590,154</u>
Unexpended appropriated funds:		
Operating funds .....	43,357,867	46,185,064
Capital funds .....	24,605,692	28,986,025
Emergency fund .....	<u>10,000,000</u>	<u>10,000,000</u>
	<u>77,963,559</u>	<u>85,171,089</u>
	<u>79,738,565</u>	<u>86,761,243</u>
Accounts receivable:		
Regular.....	11,310,945	13,844,708
Other (Note 7).....	<u>826,867</u>	<u>826,867</u>
	<u>12,137,812</u>	<u>14,671,575</u>
Inventories, less allowance for obsolete and excess stock of \$423,954 and \$400,000, respectively (Notes 1g and 6c) .....	<u>40,695,032</u>	<u>40,718,200</u>
Other current assets.....	<u>400,566</u>	<u>262,627</u>
	<u>132,971,975</u>	<u>142,413,645</u>
<b>OTHER ASSETS:</b>		
Deferred charges:		
Cost of early retirement benefits (Note 1h) .....	273,840,000	293,400,000
Retirement benefits to certain former employees of predecessor agencies (Note 1h) .....	8,740,000	9,596,000
Other .....	<u>204,106</u>	<u>408,213</u>
	<u>282,784,106</u>	<u>303,404,213</u>
<b>TOTAL ASSETS</b> .....	<b><u>\$885,776,395</u></b>	<b><u>\$914,217,185</u></b>

The accompanying notes are an integral part of this statement.

September 30, 1985 and 1984

Liabilities	1985	1984
<b>INVESTMENT OF THE UNITED STATES GOVERNMENT</b>		
Invested capital:		
Interest-bearing (10.720% and 10.208%, respectively)		
(Note 9) .....	\$76,901,053	\$84,014,932
Non-interest-bearing .....	<u>286,084,032</u>	<u>277,910,116</u>
	<u>362,985,085</u>	<u>361,925,048</u>
Current budgetary accounts (Note 4):		
Obligated operating funds.....	43,357,867	46,185,064
Obligated capital funds .....	<u>15,232,473</u>	<u>19,792,831</u>
Unobligated capital funds .....	<u>9,373,219</u>	<u>9,193,194</u>
Unobligated emergency fund .....	<u>10,000,000</u>	<u>10,000,000</u>
	<u>77,963,559</u>	<u>85,171,089</u>
	<u>440,948,644</u>	<u>447,096,137</u>
<b>CURRENT LIABILITIES:</b>		
Accounts payable:		
U.S. Government agencies .....	4,851,421	4,861,685
Government of Panama .....	<u>6,423,722</u>	<u>6,630,604</u>
Other .....	<u>9,069,465</u>	<u>8,067,022</u>
	<u>20,344,608</u>	<u>19,559,311</u>
Accrued liabilities:		
Employees' leave.....	40,368,754	39,643,978
Salaries and wages .....	<u>5,391,152</u>	<u>4,513,849</u>
Cost of early retirement benefits (Note 1h) .....	<u>19,560,000</u>	<u>19,560,000</u>
Retirement benefits to certain former employees of predecessor agencies (Note 1h).....	1,152,000	1,234,000
Employees' repatriation .....	<u>951,000</u>	<u>1,270,000</u>
Marine accident claims (Notes 7 and 10) .....	<u>5,499,542</u>	<u>8,569,562</u>
Net revenue payable to Government of Panama...	<u>1,118,755</u>	<u>2,704,695</u>
Other .....	<u>2,269,221</u>	<u>5,010,926</u>
	<u>76,310,424</u>	<u>82,507,010</u>
Other current liabilities:		
Unfunded marine accident claims (Notes 7 and 10)	23,052,507	19,782,519
Advances for capital-unexpended (Notes 1d and 11)	<u>9,614,130</u>	<u>14,078,394</u>
Other .....	<u>1,188,069</u>	<u>483,062</u>
	<u>33,854,706</u>	<u>34,343,975</u>
	<u>130,509,738</u>	<u>136,410,296</u>
<b>DEFERRED CREDIT:</b>		
Advances for capital being amortized (Notes 1d, 6a and 11) .....	<u>26,082,854</u>	<u>17,501,785</u>
<b>LONG-TERM LIABILITIES AND RESERVES:</b>		
Cost of early retirement benefits (Note 1h) .....	254,280,000	273,840,000
Retirement benefits to certain former employees of predecessor agencies (Note 1h).....	7,588,000	8,362,000
Employees' repatriation .....	<u>7,386,000</u>	<u>10,728,400</u>
Lock overhauls (Note 1i).....	<u>2,796,648</u>	<u>5,395,232</u>
Marine accidents (Note 1j) .....	<u>13,053,215</u>	<u>11,771,923</u>
Casualty losses (Note 1j) .....	<u>745,693</u>	<u>611,412</u>
Floating equipment repair (Notes 1k and 6b) .....	<u>2,385,603</u>	<u>2,500,000</u>
	<u>288,235,159</u>	<u>313,208,967</u>
<b>TOTAL LIABILITIES</b> .....	<b><u>\$885,776,395</u></b>	<b><u>\$914,217,185</u></b>

The accompanying notes are an integral part of this statement.



**Table 2.—Statement of Operations and Non-Interest-Bearing Investment**  
**Fiscal Years Ended September 30, 1985 and 1984**

	<i>1985</i>	<i>1984</i>
<b>OPERATING REVENUES:</b>		
Tolls (Note 1b) .....	\$300,807,914	\$289,155,035
Advances for capital (Note 1d) .....	.....	.....
Net tolls revenue.....	<u>300,807,914</u>	<u>289,155,035</u>
Other .....	111,669,114	120,114,444
Advances for capital (Note 11) .....	(5,753,649)	(4,853,615)
Net other revenues.....	<u>105,915,465</u>	<u>115,260,829</u>
Total operating revenues .....	<u>406,723,379</u>	<u>404,415,864</u>
<b>OPERATING EXPENSES (Note 6d):</b>		
Payments to the Government of Panama:		
Public services .....	10,000,000	10,000,000
Fixed annuity .....	10,000,000	10,000,000
Tonnage .....	<u>52,803,013</u>	<u>49,143,817</u>
72,803,013	69,143,817	
Maintenance of channels and harbors .....	42,384,789	39,633,790
Navigation service and control .....	66,755,872	71,396,827
Locks operation .....	42,881,108	46,516,500
General repair, engineering and maintenance services .....	19,044,297	5,074,102
Supply and logistics .....	15,517,805	7,612,534
Utilities .....	34,680,996	34,538,353
Housing operations.....	6,893,595	6,121,134
General and administrative.....	65,937,035	70,460,073
Interest on interest-bearing investment (Note 9) .....	7,713,238	9,796,269
Other .....	<u>30,992,876</u>	<u>37,284,966</u>
Total operating expenses.....	<u>405,604,624</u>	<u>397,578,365</u>
NET OPERATING REVENUE (Notes 1b and 8).....	<u>1,118,755</u>	<u>6,837,499</u>
<b>INVESTED CAPITAL—NON-INTEREST-BEARING:</b>		
Unrecovered costs (recovered) deferred (Notes 1b and 8).....	.....	(4,132,804)
Net revenue payable to Government of Panama.....	(1,118,755)	(2,704,695)
Investment at beginning of fiscal year.....	277,910,116	268,748,245
Miscellaneous receipts deposited into the U.S. Treasury .....	917,191	282,793
Due U.S. Treasury for undeposited receipts.....	(456,513)	(917,191)
Interest on interest-bearing investment (Note 9) .....	<u>7,713,238</u>	<u>9,796,269</u>
INVESTED CAPITAL—NON-INTEREST-BEARING AT END OF FISCAL YEAR .....	<u>\$286,084,032</u>	<u>\$277,910,116</u>

The accompanying notes are an integral part of this statement.

Table 3A.—Statement of Changes in the Investment of the United States Government  
Fiscal Year Ended September 30, 1985

	<i>Invested Capital</i>	<i>Operating Funds</i>	<i>Capital Funds</i>	<i>Total</i>
	<i>Interest-Bearing</i>	<i>Non-Interest-Bearing</i>	<i>Emergency Fund</i>	
INVESTMENT AT OCTOBER 1, 1984	\$84,014,932	\$277,910,116	\$10,000,000	\$46,185,064
Appropriation by the Congress for fiscal year 1985	.....	.....	.....	404,646,000
	84,014,932	277,910,116	10,000,000	450,831,064
				54,186,025
				876,942,137
INCREASES IN INVESTMENT:				
Prior year receipts deposited into the U.S. Treasury	29,580,333	917,191	.....	917,191
Expenditures from capital appropriations	383,034,130	.....	(383,034,130)	.....
Expenditures from operating appropriations	.....	7,713,238	.....	7,713,238
Interest on interest-bearing investment	73,414	.....	.....	73,414
Property transferred from other U.S. Government agencies	.....	1,118,755	.....	1,118,755
Net revenue (Note 1b)	.....	.....	.....	.....
	412,687,877	9,749,184	(383,034,130)	(29,580,333)
				9,822,598
DECREASES IN INVESTMENT:				
Funds to be covered into the U.S. Treasury	416,106,788	.....	24,439,067	24,439,067
Receipts deposited into the U.S. Treasury	.....	456,513	.....	416,106,788
Due U.S. Treasury for undeposited receipts	3,437,013	.....	.....	456,513
Property transferred to the Government of Panama	257,955	.....	.....	3,437,013
Property transferred to other U.S. Government agencies	.....	1,118,755	.....	257,955
Net revenue payable to Government of Panama	.....	.....	.....	1,118,755
(Note 1b)	419,801,756	1,575,268	24,439,067	445,816,091
INVESTMENT AT SEPTEMBER 30, 1985	\$76,901,053	\$286,084,032	\$10,000,000	\$43,357,867
	(Note 9)			\$24,605,692
				\$440,948,644

The accompanying notes are an integral part of this statement.

**Table 3B.—Statement of Changes in the Investment of the United States Government  
Fiscal Year Ended September 30, 1984**

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The accompanying notes are an integral part of this statement.

Table 4.—Statement of Changes in Financial Position

SOURCE OF FUNDS:		1985	1984
From Operations:			
Revenue .....	\$406,723,379	\$404,415,864	
Less operating expenses:			
Interest on interest-bearing investment.....	7,713,238	9,796,269	
Payments to the Government of Panama .....	72,803,013	69,143,817	
Other expenses .....	325,088,373	318,638,279	
Total operating expenses.....	405,604,624	397,578,365	
Net operating revenue (Notes 1b and 8) .....	1,118,755	6,837,499	
Unrecovered costs for fiscal year 1983 (recovered) deferred (Notes 1b and 8) .....	.....	(4,132,804)	
Net revenue payable to Government of Panama (Notes 1b and 8).....	(1,118,755)	(2,704,695)	
Add transactions not requiring outlay of funds:			
Depreciation (Note 1c) .....	18,415,373	19,586,529	
Provision for lock overhauls (Note 1i) ....	3,741,000	5,071,000	
Provision for casualty losses (Note 1j)....	5,200,000	7,400,000	
Provision for floating equipment repair (Notes 1k and 6b) .....	2,500,000	2,500,000	
Other .....	4,482,630	5,665,966	
	<u>34,339,003</u>	<u>40,223,495</u>	
Change in investment of the U.S. Government:			
Interest on interest-bearing investment.....	7,713,238	9,796,269	
Receipts deposited into U.S. Treasury.....	(416,106,788)	(405,954,027)	
Disbursements from appropriated funds .....	412,614,464	381,351,575	
Net property transfers .....	(3,621,554)	(288,206)	
Other .....	460,677	(634,399)	
	<u>1,060,037</u>	<u>(15,728,788)</u>	
Amortization of advances for capital.....	<u>1,636,845</u>	<u>941,478</u>	
Advances for capital being amortized (Notes 1d, 6a and 11) .....	<u>8,581,069</u>	<u>3,064,777</u>	
Total source of funds .....	<u>45,616,954</u>	<u>28,500,962</u>	
APPLICATION OF FUNDS:			
Lock overhauls expenditures .....	6,339,585	7,283,342	
Casualty losses expenditures.....	3,784,427	7,842,622	
Accrued capital expenditures .....	29,212,127	22,456,349	
Floating equipment repair expenditures .....	2,614,397	.....	
Total application of funds .....	<u>41,950,536</u>	<u>37,582,313</u>	
INCREASE (DECREASE) IN WORKING CAPITAL .....	<u>\$ 3,666,418</u>	<u>\$ (9,081,351)</u>	
ANALYSIS OF CHANGES IN WORKING CAPITAL:			
Increase (decrease) in current assets:			
Cash.....	\$184,853	\$15,843	
Receivables .....	(2,533,763)	2,801,163	
Inventories .....	(23,168)	(1,292,084)	
Other .....	137,938	(91,755)	
	<u>(2,234,140)</u>	<u>1,433,167</u>	
Decrease (increase) in current liabilities:			
Accounts payable .....	(785,297)	(4,730,783)	
Accrued liabilities .....	6,196,586	(3,674,921)	
Other current liabilities .....	489,269	(2,108,814)	
	<u>5,900,558</u>	<u>(10,514,518)</u>	
INCREASE (DECREASE) IN WORKING CAPITAL .....	<u>\$ 3,666,418</u>	<u>\$ (9,081,351)</u>	

The accompanying notes are an integral part of this statement.



Table 5.—Statement of Status of Appropriations

	1985	1984
SOURCE OF APPROPRIATIONS:		
Operating funds:		
Current year operating appropriation .....	<u>\$404,646,000</u>	<u>\$391,912,000</u>
Obligated operating funds brought forward:		
Fiscal year 1980 .....	1,692,534	2,543,398
Fiscal year 1981 .....	.....	3,424,423
Fiscal year 1982 .....	.....	4,717,168
Fiscal years—Merged .....	6,412,176	.....
Fiscal year 1983 .....	3,887,554	34,537,228
Fiscal year 1984 .....	<u>34,192,800</u>	.....
	<u>46,185,064</u>	<u>45,222,217</u>
	<u>450,831,064</u>	<u>437,134,217</u>
Capital funds:		
Current year capital appropriation (no year) ....	<u>25,200,000</u>	<u>21,813,000</u>
Obligated capital funds brought forward:		
Fiscal year 1980 .....	159,270	273,632
Fiscal years 1981 through 1983 .....	.....	17,758,053
Fiscal years 1981 through 1984 .....	<u>19,633,561</u>	.....
	<u>19,792,831</u>	<u>18,031,685</u>
Unobligated capital funds (no year) brought forward:		
Fiscal year 1980 .....	87,103	201,847
Fiscal years 1981 through 1983 .....	.....	10,284,351
Fiscal years 1981 through 1984 .....	<u>9,106,091</u>	.....
	<u>9,193,194</u>	<u>10,486,198</u>
	<u>54,186,025</u>	<u>50,330,883</u>
Emergency fund (no year) .....	<u>10,000,000</u>	<u>10,000,000</u>
TOTAL SOURCE OF APPROPRIATIONS .....	<u><u>\$515,017,089</u></u>	<u><u>\$497,465,100</u></u>

The accompanying notes are an integral part of this statement.

**Fiscal Years Ended September 30, 1985 and 1984**

	1985	1984
<b>APPLICATION OF APPROPRIATIONS:</b>		
<b>Operating funds:</b>		
Expenditures from operating appropriations:		
Fiscal year 1980.....	\$909,463	\$886,097
Fiscal year 1981.....	.....	1,167,815
Fiscal year 1982.....	.....	2,326,651
Fiscal years—Merged .....	4,054,389	.....
Fiscal year 1983.....	1,642,554	29,591,407
Fiscal year 1984.....	29,914,041	326,034,746
Fiscal year 1985.....	<u>346,513,683</u>	<u>.....</u>
	<u>383,034,130</u>	<u>360,006,716</u>
<b>Obligated operating funds:</b>		
Fiscal year 1980.....	713,275	1,692,534
Fiscal year 1981.....	.....	3,558,134
Fiscal year 1982.....	.....	2,854,042
Fiscal years—Merged .....	1,729,337	.....
Fiscal year 1983.....	1,957,813	3,887,554
Fiscal year 1984.....	3,197,827	34,192,800
Fiscal year 1985.....	<u>35,759,615</u>	<u>.....</u>
	<u>43,357,867</u>	<u>46,185,064</u>
<b>Unobligated operating funds lapsed .....</b>	<u>24,439,067</u>	<u>30,942,437</u>
	<u>450,831,064</u>	<u>437,134,217</u>
<b>Capital funds:</b>		
Expenditures from capital appropriations:		
Fiscal year 1980.....	68,453	229,106
Fiscal years 1981 through 1984.....	.....	21,115,752
Fiscal years 1981 through 1985.....	<u>29,511,880</u>	<u>.....</u>
	<u>29,580,333</u>	<u>21,344,858</u>
<b>Obligated capital funds:</b>		
Fiscal year 1980.....	124,574	159,269
Fiscal years 1981 through 1984.....	.....	19,633,562
Fiscal years 1981 through 1985.....	<u>15,107,899</u>	<u>.....</u>
	<u>15,232,473</u>	<u>19,792,831</u>
<b>Unobligated capital funds (no year):</b>		
Fiscal year 1980.....	53,346	87,103
Fiscal years 1981 through 1984.....	.....	9,106,091
Fiscal years 1981 through 1985.....	<u>9,319,873</u>	<u>.....</u>
	<u>9,373,219</u>	<u>9,193,194</u>
	<u>54,186,025</u>	<u>50,330,883</u>
<b>Unobligated emergency fund (no year) .....</b>	<u>10,000,000</u>	<u>10,000,000</u>
<b>TOTAL APPLICATION OF APPROPRIATIONS .....</b>	<u>\$515,017,089</u>	<u>\$497,465,100</u>

The accompanying notes are an integral part of this statement.

Table 6.—Statement of Property, Plant and Equipment  
September 30, 1985 and 1984

	<i>Estimated service life</i>	1985		1984	
		<i>Depreciation and valuation allowances</i>	<i>Cost</i>	<i>Depreciation and valuation allowances</i>	<i>Cost</i>
Titles and treaty rights .....	40 years	\$14,728,889	\$4510,723	\$14,728,889	\$4,142,501
Interest during construction .....	.....	50,892,311	50,892,311	50,892,311	50,892,311
Canal excavation, fills and embankments .....	15-100 years	347,536,452	106,030,626	347,536,452	97,504,007
Canal structures and equipment .....	4-100 years	240,486,121	115,524,805	227,921,383	111,597,988
Supporting and general facilities .....	5-100 years	154,169,752	96,534,802	163,216,450	102,770,199
Minor items of plant and equipment .....	.....	10,569,651	10,569,650	10,339,272	10,339,272
Facilities held for future use .....	15-100 years	2,858,777	2,450,779	2,915,933	2,760,398
Plant additions in progress .....	.....	35,302,057	.....	30,855,313	.....
Suspended construction projects .....	.....	40,145,798	40,145,798	40,145,798	40,145,798
<b>TOTAL</b> .....	.....	<b>\$896,689,808</b>	<b>\$426,669,494</b>	<b>\$888,551,801</b>	<b>\$420,152,474</b>

The accompanying notes are an integral part of this statement.

**NOTES TO FINANCIAL STATEMENTS****1. Summary of Significant Accounting Policies.**

The Comptroller General of the United States approved the Accounting Principles and Standards Statement of the Panama Canal Commission in his letter dated September 14, 1982. A summary of significant accounting policies follows:

a. *Accounting and reporting.* As required by section 1311(a) of the Panama Canal Act of 1979, hereinafter referred to as the Act, the accounts of the Commission are maintained pursuant to the Accounting and Auditing Act of 1950. This requires that the principles, standards and related requirements be met, as prescribed by the Comptroller General of the United States, after consulting with the Secretary of the Treasury and the Director of the Office of Management and Budget concerning their accounting, financial reporting and budgetary needs. The Accounting and Auditing Act of 1950 also requires that the accounts be maintained on an accrual basis.

b. *Cost recovery.* As required by section 1341(e)(1) of the Act, the application of generally accepted accounting principles to the Panama Canal Commission, a United States Government agency comparable to a rate-regulated public utility, determines the manner in which costs are recognized. The basis for tolls rates is prescribed in section 1602(b) of the Act. This section of the Act, known as the "statutory tolls formula," provides that:

"Tolls shall be prescribed at rates calculated to produce revenues to cover as nearly as practicable all costs of maintaining and operating the Panama Canal, together with the facilities and appurtenances related thereto, including unrecovered costs incurred on or after the effective date of this Act, interest, depreciation, payments to the Republic of Panama pursuant to paragraph 5 of Article III and paragraph 4(a) and (b) of Article XIII of the Panama Canal Treaty of 1977, and capital for plant replacement, expansion, and improvements. Tolls shall not be prescribed at rates calculated to produce revenues sufficient to cover payments to the Republic of Panama pursuant to paragraph 4(c) of Article XIII of the Panama Canal Treaty of 1977."

Under this statutory tolls formula, any unrecovered costs are to be recovered from subsequent revenues. The amount for recovery from subsequent revenues is transferred from Invested Capital to an account within the Other Assets classification. Unrecovered costs are charged back to Invested Capital to the extent subsequent annual revenues exceed annual costs.

c. *Property, plant and equipment.* Property, plant and equipment are recorded at cost, or if acquired from another United States Government

agency, at the value determined by the Director of the Office of Management and Budget. Administrative and other related general expenses are recovered currently and therefore not capitalized. The cost of minor items of property, plant and equipment is charged to expense as incurred.

d. *Advances for capital.* A portion of tolls in excess of depreciation recoveries may be programmed annually by the Board of Directors for plant replacement, expansion, or improvements. Such funds are considered capital advances from Canal users. Upon utilization, these advances are amortized through an offset to depreciation expense in an amount calculated to approximate the depreciation on assets acquired with such advances.

e. *Depreciation.* Property, plant and equipment are depreciated over their estimated service lives at rates computed using a straight-line method with additional annual depreciation, identified as composite, to provide for premature plant retirements.

The recurring costs of dredging the waterway are charged to expense. Non-recurring dredging costs for substantial improvements and betterments to the waterway are considered additions to plant and are capitalized and depreciated over their estimated service lives.

f. *Accounts receivable.* Uncollectible accounts receivable of the Panama Canal Commission are recognized as a reduction in revenue when written off. Any subsequent collections of Commission accounts receivable previously written off are recorded as revenue.

g. *Inventories.* Operating materials and supplies are stated at average cost, plus cost of transportation to the ultimate destination on the Isthmus of Panama. An allowance has been established to reflect the estimated cost of obsolete and excess stock.

h. *Retirement benefits.* Employer payments to the contributory United States Civil Service Retirement System and to the Republic of Panama Social Security System are charged to expense. The Commission has no liability for future payments to employees under these systems.

Non-United States citizen employees who retired from predecessor agencies prior to October 5, 1958, are not covered by the United States Civil Service Retirement System but do receive benefits under a separate annuity plan. Payments made under this annuity plan are recorded as a current year expense. The liability of the Commission for future annuity payments to these former employees or their eligible widows is reflected in the balance sheet as Retirement benefits to certain former employees of predecessor agencies and an equal amount is recorded as a Deferred charge.

As required by the Act, the Panama Canal Commission is liable for the increase in the unfunded liability of the United States Civil Service Retirement Fund which is attributable to benefits payable from that fund to, or on behalf of, employees and their survivors under the early retirement provisions of the Act. The annual installment to liquidate the increased liability is determined by the Office of Personnel Management.

i. *Reserve for lock overhauls.* A reserve is provided through an annual charge to expense to cover the estimated cost of periodic lock overhauls.

j. *Reserve for casualty losses.* A reserve is provided through an annual charge to expense to cover the estimated cost of marine accidents and other casualty losses.

k. *Reserve for floating equipment repair.* A reserve is provided through an annual charge to expense to cover the estimated cost of repairs to major floating equipment.

l. *Housing use rights.* No monetary value is assigned to the rights granted to the United States Government by the Republic of Panama to use Canal Area housing transferred to the Republic of Panama under the terms of the Panama Canal Treaty of 1977. The cost to manage, maintain and provide livability improvements to these quarters is charged to expense. Rental income is included in other revenues.

## **2. Plant Valuation Allowances.**

At July 1, 1951, certain valuation allowances for property, plant and equipment transferred from the Panama Canal (agency) to the Panama Canal Company and the Canal Zone Government were established, to reduce to usable value the costs of the assets transferred. At October 1, 1979, such valuation allowances as were applicable to the assets transferred from the Panama Canal Company and the Canal Zone Government to the Panama Canal Commission were carried forward and are comprised of: (a) \$4.8 million at September 30, 1985, and \$5.5 million at September 30, 1984, to reduce to usable value the cost of property, plant and equipment transferred; (b) \$50.9 million at September 30, 1985, and 1984, to offset interest costs imputed for the original Canal construction period; and (c) \$42.5 million at September 30, 1985, and \$42.8 million at September 30, 1984, to offset the cost of defense facilities and suspended construction projects, the latter being principally the partial construction of a third set of locks abandoned in the early part of World War II.

Property, plant and equipment offset by valuation allowances, when fully or partially reactivated, are reinstated by a reduction in the valuation allowance and by an increase to the non-interest-bearing investment of the United States Government in proportion to the value to the Commission of the reactivated asset.

## **3. Depreciation as a Percentage of Average Cost of Plant.**

The provision for depreciation, expressed as a percentage of average cost of depreciable plant exclusive of valuation allowances, was 2.53% for fiscal year 1985 and 2.63% for fiscal year 1984.

## **4. Cash and Fund Balances.**

As of September 30, 1985, the cash and fund balances of \$79,738,565 are made up of \$74,572,119 on deposit in the United States Treasury, \$1,509,718 on deposit in commercial banks, and \$3,656,728 on hand. Of the total, \$77,963,559 is comprised of current budgetary accounts which include appropriated funds for operations, capital and the emergency fund.

As of September 30, 1984, the cash and fund balances of \$86,761,243 were made up of \$83,845,968 on deposit in the United States Treasury, \$1,209,019 on deposit in commercial banks, and \$1,706,256 on hand. Of the total, \$85,171,089 was comprised of current budgetary accounts which included appropriated funds for operations, capital and the emergency fund.

The emergency fund represents the amount on deposit in the United States Treasury which is to be used ". . . to defray emergency expenditures and to insure the continuous efficient and safe operation of the Panama Canal when funds appropriated for the operation and maintenance of the Canal prove insufficient for such purposes . . .".

The postal fund consists of outstanding money orders, postal savings and interest accrued thereon. This fund will remain available until liquidated. The trust fund primarily includes deposits made by customers for future tolls and other service payments.

### **5. Panama Canal Commission Fund.**

The Panama Canal Commission Fund as established by the Panama Canal Act of 1979 (Public Law No. 96-70) is made up of receipts deposited in the United States Treasury less appropriation warrants issued during the fiscal year. The balance in this account, \$180.8 million as of September 30, 1985, and \$171.2 million as of September 30, 1984, is available for future appropriations.

Section 1302 of the Panama Canal Act of 1979 (Public Law No. 96-70) provides that all appropriations necessary to operate the Panama Canal shall be issued from the Panama Canal Commission Fund. The appropriations for fiscal year 1980 were issued to the Commission from the General Fund of the United States Treasury. The status of the amount still owed to the General Fund of the United States Treasury for fiscal year 1980 is as follows:

	<i>Millions of Dollars</i>
Operating Appropriation .....	\$427.2
Capital Appropriation .....	<u>36.6</u>
	\$463.8
Repaid to General Fund (07/81) .....	(350.0)
Repaid to General Fund (12/82) .....	<u>(28.2)</u>
	(378.2)
Amount owed General Fund of U.S. Treasury as of September 30, 1985 .....	<u>\$ 85.6</u>

### **6. Accounting Changes.**

a. In fiscal year 1984 a new method was adopted for amortizing advances for capital disbursements based on the flow of costs from construction work in progress. Disbursements are amortized in proportion to depreciation costs arising from completed projects transferred from construction work in progress.

b. During fiscal year 1984, a reserve was established for floating equipment repairs similar to the reserves now in existence for lock overhauls and marine accidents. A one-time charge to expense of \$2.5

million was made to establish the reserve. The annual accrual will be reviewed and adjusted as appropriate.

c. Effective with fiscal year 1984, there was a change in the method of applying the accounting policy for certain inventories. Inventories of manufactured materials and supplies and water system chemicals valued at \$1.3 million were written off by a charge to operations in fiscal year 1984.

d. During fiscal year 1985, the Commission virtually eliminated transfers of costs from performers of services to requesters of these services to simplify and streamline accounting for costs. Additionally, in fiscal year 1985, the operating expenses for storehouse, transportation, sanitation and grounds management services and the employee fitness program were reclassified in order to reflect more closely the Commission's functional alignment of costs. For comparability, fiscal year 1984 expenses were recast to reflect the same cost alignment as fiscal year 1985. In this connection, storehouse expenses of \$6,543,628 and transportation expenses of \$1,068,906 were combined and restated under supply and logistics. Sanitation and grounds maintenance services expenses of \$1,078,835 were combined with general repair, engineering and maintenance services, and expenses for the employee fitness program of \$888,251 were combined with other. These expenses were originally classified in fiscal year 1984 as follows: storehouse expenses were included in general repair, engineering and maintenance services; transportation expenses with utilities; sanitation and ground maintenance services with other; and employee fitness program costs with housing operations.

## **7. Other Receivables.**

Other receivables represent services provided in connection with marine accidents for which the vessel is considered to be responsible awaiting final settlement. This amount is also included in the computation of estimated liabilities established for marine accident claims.

## **8. Unrecovered Costs Due from Subsequent Revenues.**

Pursuant to the provisions of section 1341(e) and section 1602(b) of the Panama Canal Act of 1979 (Public Law No. 96-70) the net loss of \$4.1 million from fiscal year 1983 operations was recovered from fiscal year 1984 operating revenue.

## **9. Interest-Bearing Investment of the United States Government.**

The interest-bearing investment of the United States Government in the Panama Canal is determined based on section 1603(a) of the Panama Canal Act of 1979. The interest-bearing investment of the United States Government at September 30, 1985, and September 30, 1984, was determined as follows:

	<i>Millions of Dollars</i>
Investment at September 30, 1983 .....	\$108.9
Fiscal year 1984 transactions:	
Disbursements.....	\$381.4
Receipts .....	(406.0)
Net property transfers.....	(0.3)
Net change .....	(24.9)
Investment at September 30, 1984 .....	84.0
Fiscal year 1985 transactions:	
Disbursements.....	412.6
Receipts .....	(416.1)
Net property transfers.....	(3.6)
Net change .....	(7.1)
Investment at September 30, 1985 .....	<u><u>\$76.9</u></u>

## 10. Marine Accident Claims.

Liabilities arising from marine accident claims are divided into fund and non-fund categories. The fund category is made up of the following:

- a. Accidents which occurred prior to October 1, 1979.
- b. Accidents which occurred within the locks after September 30, 1979.
- c. Accidents which occurred outside the locks after September 30, 1979, for which the claim or estimated liability is \$120,000 or less per ship per accident.

Settlement of liabilities for marine accidents which occurred outside the locks where the claim exceeds \$120,000 requires specific Congressional approval. Until Congressional action is completed, liabilities for these accidents are booked as non-fund. Public Law 99-209, dated December 23, 1985, granted authority to the Commission to adjust and pay these claims. At September 30, 1985, such claims which have accrued since October 1, 1979, totaled \$23.1 million. The authority under Public Law 99-209 is retroactive to October 1, 1979; however, any payments will require appropriations action by the Congress.

## 11. Advances for Capital—Transit Booking System Fees.

During fiscal year 1982, with approval of the Board of Directors, the Commission tested a system whereby shippers, for a fee, could make an advance reservation for vessel transit. The system was activated in fiscal year 1983 and generated funds of \$5.8 million in fiscal year 1985 and \$4.9 million in fiscal year 1984. Such funds are considered capital advances from Canal users. By direction of the Board of Directors, these fees are set aside for capital improvements.

## 12. Contingent Liabilities and Commitments.

In addition to recorded liabilities, the estimated maximum contingent liability which could result from pending claims and lawsuits was \$3.4 million at September 30, 1985, and September 30, 1984. In the opinion of management and Commission counsel, these pending claims and lawsuits will be resolved with no material adverse effect on the financial condition of the agency.

Commitments under uncompleted construction contracts and unfilled purchase orders amounted to \$25.9 million at September 30, 1985, and

\$29.7 million at September 30, 1984. Of these amounts \$0.2 million in unfilled purchase orders were prepaid as of September 30, 1985, and \$0.1 million at September 30, 1984. In addition, the Panama Canal Commission is liable for an indeterminable amount with respect to death and disability payments under the Federal Employees' Compensation Act.

Cash and negotiable securities of a kind acceptable by the United States Government in the amount of \$7.3 million were held by United States depositories designated by the Panama Canal Commission at September 30, 1985, and \$6.3 million at September 30, 1984, to guarantee payment by third parties of their obligations.

The Panama Canal Treaty of 1977, Article XIII, paragraph 4(c), provides that an annual amount of up to \$10 million per year be paid to the Government of Panama out of operating revenues to the extent that such revenues exceed expenditures. Payment to the Government of Panama is subject to the limitations set forth in section 1341(e) of the Panama Canal Act of 1979 (Public Law No. 96-70). In the event operating revenues in any year do not produce a surplus sufficient to cover this payment, the unpaid balance shall be paid from operating surpluses in future years up to the amount available from these surpluses. As of September 30, 1985, the balance contingently payable to the Government of Panama amounts to \$53.1 million. As of September 30, 1984, the balance contingently payable to the Government of Panama amounted to \$44.2 million.

### **13. Treaty Impact.**

On September 7, 1977, the United States of America and the Republic of Panama signed the Panama Canal Treaty of 1977. The Treaty provided for the establishment of the Panama Canal Commission on October 1, 1979, to assume certain operational responsibilities for the Canal until December 31, 1999. When the Treaty terminates on December 31, 1999, the Republic of Panama shall assume total responsibility for the management, operation, and maintenance of the Panama Canal, which shall be turned over in operating condition and free of liens and debts, except as the two Parties may otherwise agree. The effects of these long-range requirements are not considered in the financial statements.



# *Chapter VI*

## **STATISTICAL TABLES**

### **Shipping Statistics**

Table 1.—Panama Canal Traffic—Fiscal Years 1976 Through 1985

Fiscal year	Total traffic		Traffic assessed tolls on net tonnage basis		Traffic assessed tolls on displacement tonnage basis		
	Number of transits	Tolls	Long tons of cargo	Number of transits	Panama Canal net tonnage	Number of transits	Displacement tonnage
OCEANGOING COMMERCIAL TRAFFIC <sup>1</sup>							
1976 .....	12,157	\$134,204,402	117,212,266	12,123	127,778,919	34	131,258
*TQ .....	3,037	35,272,300	30,888,300	3,031	33,686,757	6	23,205
1977 .....	11,896	163,826,571	122,978,785	11,868	133,353,132	28	108,642
1978 .....	12,677	194,773,111	142,518,288	12,647	156,907,260	30	109,798
1979 .....	12,935	208,376,741	154,110,866	12,902	167,470,601	33	136,600
1980 .....	13,507	291,838,590	167,214,935	13,476	182,063,175	31	137,593
1981 .....	13,884	301,762,600	171,221,762	13,847	188,656,491	37	111,418
1982 .....	14,009	323,958,366	185,452,332	13,976	202,884,207	33	129,684
1983 .....	11,707	285,983,805	145,590,759	11,668	169,503,918	39	132,431
1984 .....	11,230	286,677,844	140,470,818	11,199	162,335,342	31	116,335
1985 .....	11,515	298,497,802	138,643,243	11,498	168,940,927	17	86,623
OCEANGOING U.S. GOVERNMENT TRAFFIC <sup>1</sup>							
1976 .....	85	\$727,983	177,508	68	641,137	17	87,728
*TQ .....	18	166,779	55,383	13	118,300	5	65,025
1977 .....	88	805,983	212,677	59	577,483	29	165,148
1978 .....	103	889,093	291,115	70	589,085	33	214,145
1979 .....	111	1,054,169	357,482	80	726,755	31	207,640
1980 .....	101	1,515,326	396,481	73	844,748	28	217,055
1981 .....	89	1,241,442	301,776	68	705,936	21	143,121
1982 .....	110	1,546,746	285,451	67	794,282	43	309,206
1983 .....	125	1,721,925	354,873	77	812,840	48	350,699
1984 .....	137	2,388,272	329,607	88	1,131,865	49	410,682
1985 .....	129	2,223,938	259,524	85	1,148,311	44	248,967
FREE OCEANGOING TRAFFIC <sup>1,2</sup>							
1976 .....	38	.....	5,635	17	22,854	21	41,655
*TQ .....	4	.....	.....	3	1,474	1	1,800
1977 .....	13	.....	380	8	21,252	5	10,380
1978 .....	5	.....	.....	4	3,789	1	1,100
1979 .....	10	.....	.....	1	4,527	2	2,194
1980 .....	6	.....	.....	3	1,686	3	4,810
1981 .....	11	.....	.....	4	2,248	7	8,544
1982 .....	23	.....	.....	9	5,010	14	21,903
1983 .....	14	.....	2,504	9	9,119	5	5,986
1984 .....	17	.....	.....	4	2,224	13	21,025
1985 .....	10	.....	20	4	2,731	6	8,771
TOTAL OCEANGOING TRAFFIC <sup>1</sup>							
1976 .....	12,280	\$134,932,385	117,395,409	12,208	128,442,910	72	260,641
*TQ .....	3,059	35,439,079	30,943,683	3,047	33,806,531	12	90,030
1977 .....	11,997	164,632,554	123,191,842	11,935	133,951,867	62	284,170
1978 .....	12,785	195,662,204	142,809,403	12,721	157,500,134	64	325,043
1979 .....	13,056	209,430,910	154,468,349	12,990	168,201,883	66	346,434
1980 .....	13,614	293,353,916	167,611,416	13,552	182,909,609	62	359,458
1981 .....	13,984	303,004,042	171,523,538	13,919	189,364,675	65	263,083
1982 .....	14,142	325,505,112	185,737,783	14,052	203,683,499	90	460,793
1983 .....	11,846	287,705,730	145,948,136	11,754	170,325,877	92	489,116
1984 .....	11,384	289,066,116	140,800,425	11,291	163,469,431	93	548,042
1985 .....	11,654	300,721,740	138,902,787	11,587	170,091,969	67	344,361

Table 1.—Panama Canal Traffic—Fiscal Years 1976 Through 1985  
(Continued)

Fiscal year	Total traffic		Traffic assessed tolls on net tonnage basis		Traffic assessed tolls on displacement tonnage basis		
	Number of transits	Tolls	Long tons of cargo	Number of transits	Panama Canal net tonnage	Number of transits	Displacement tonnage
SMALL COMMERCIAL TRAFFIC <sup>3</sup>							
1976 .....	745	\$49,314	6,866	737	50,281	8	1,229
*TQ .....	204	24,785	1,236	204	15,389	...	...
1977 .....	759	39,960	2,820	751	48,717	8	1,108
1978 .....	792	63,526	6,962	785	57,827	7	1,040
1979 .....	936	76,591	7,718	934	69,229	2	94
1980 .....	788	74,898	787	787	52,052	1	57
1981 .....	791	65,604	1,355	788	44,962	3	279
1982 .....	830	73,228	928	826	50,399	4	315
1983 .....	810	73,887	669	810	48,033	..	..
1984 .....	802	76,921	652	800	48,008	2	145
1985 .....	793	73,710	468	792	45,694	1	110
SMALL U.S. GOVERNMENT TRAFFIC <sup>3</sup>							
1976 .....	136	\$6,168	.....	18	1,159	118	8,019
*TQ .....	36	1,613	23	4	481	32	2,144
1977 .....	277	12,851	.....	22	953	255	16,769
1978 .....	187	9,504	8	25	1,446	162	10,742
1979 .....	315	14,375	9	48	2,865	267	15,519
1980 .....	276	15,129	.....	29	1,357	247	14,313
1981 .....	225	10,712	2	16	751	209	10,431
1982 .....	241	10,757	.....	12	415	229	10,973
1983 .....	242	11,406	5	12	332	230	11,177
1984 .....	241	11,998	.....	8	336	233	11,282
1985 .....	273	12,464	.....	15	773	258	11,113
SMALL FREE TRAFFIC <sup>2</sup>							
1976 .....	40	.....	50	31	1,484	9	701
*TQ .....	14	.....	.....	14	944	...	...
1977 .....	54	.....	10	50	2,840	4	466
1978 .....	44	.....	20	42	2,986	2	72
1979 .....	55	.....	3	47	2,160	8	632
1980 .....	47	.....	.....	41	2,317	6	560
1981 .....	50	.....	.....	41	2,613	9	1,012
1982 .....	58	.....	70	40	2,803	18	1,172
1983 .....	56	.....	8	39	2,321	17	2,010
1984 .....	96	.....	59	86	4,637	10	1,360
1985 .....	46	.....	3	32	1,721	14	1,103
TOTAL PANAMA CANAL TRAFFIC							
1976 .....	13,201	\$134,987,867	117,402,325	12,994	128,495,834	207	270,590
*TQ .....	3,313	35,465,477	30,944,942	3,269	33,823,345	44	92,174
1977 .....	13,087	164,685,365	123,194,672	12,758	134,004,377	329	302,513
1978 .....	13,808	195,735,234	142,816,393	13,573	157,562,393	235	336,897
1979 .....	14,362	209,521,876	154,476,079	14,019	168,276,137	343	362,679
1980 .....	14,725	293,443,943	167,612,203	14,409	182,965,335	316	374,388
1981 .....	15,050	303,080,358	171,524,895	14,764	189,413,001	286	274,805
1982 .....	15,271	325,589,097	185,738,781	14,930	203,737,116	341	473,253
1983 .....	12,954	287,791,023	145,948,818	12,615	170,376,563	339	502,303
1984 .....	12,523	289,155,035	140,801,136	12,185	163,522,412	338	560,829
1985 .....	12,766	300,807,914	138,903,258	12,426	170,140,157	340	356,687

<sup>1</sup> Oceangoing traffic includes ships of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.).

<sup>2</sup> Free traffic includes ships of the Colombian and Panamanian Governments and ships transiting for repair by the Commission.

<sup>3</sup> Includes vessels under 300 net tons, Panama Canal measurement (or under 500 displacement tons for vessels assessed on displacement tonnage).

\* Effective 10-1-76 the fiscal year for all U.S. Government agencies was changed from July 1 through June 30, to October 1 through September 30. For continuity purposes, July, August, and September 1976 were designated the Transition Quarter.

Table 2.—Oceangoing Commercial Traffic by Months—Fiscal Years 1985 and 1984

	Number of Transits		Panama Canal Net Tonnage		Long Tons of Cargo		Tolls	
	1984-85	1983-84	1984-85	1983-84	1984-85	1983-84	1984-85	1983-84
October .....	968	901	14,116,692	12,851,296	12,071,648	10,983,458	\$ 25,040,510	\$ 22,706,763
November .....	945	871	13,641,613	12,842,014	11,503,330	10,938,373	24,142,697	22,570,931
December .....	939	915	14,017,821	13,066,789	11,758,781	10,737,399	24,888,529	22,960,793
January .....	929	913	13,868,162	13,552,761	11,202,166	11,402,597	24,392,475	23,970,069
February .....	881	898	13,093,376	12,854,233	10,818,565	11,084,966	23,231,308	22,680,013
March .....	1,009	984	14,113,353	13,705,979	11,637,624	11,599,809	24,913,356	24,204,031
April .....	971	963	13,867,114	13,295,263	11,566,582	11,342,269	24,556,398	23,497,029
May .....	1,032	996	15,017,869	14,377,680	11,586,452	12,354,653	26,121,059	25,377,511
June .....	971	950	13,946,877	14,056,164	11,029,923	12,139,019	24,651,356	24,830,193
July .....	995	934	14,989,105	13,488,423	12,360,590	12,297,190	26,362,702	23,995,141
August .....	947	990	14,415,454	14,642,847	11,524,275	12,991,960	25,364,335	25,808,306
September .....	928	915	13,853,491	13,601,893	11,684,522	12,497,910	24,483,076	24,077,064
Total .....	11,515	11,230	168,940,927	162,335,342	138,643,243	140,470,818	\$298,497,802	\$286,677,844
Average per month .....	960	936	14,078,411	13,527,945	11,553,604	11,705,902	\$24,874,817	\$23,889,820

NOTE: The above includes only commercial vessels of 300 net tons and over. Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on a displacement tonnage basis. Statistics on these vessels, except as relates to displacement tonnage, have been included in the table above.

Table 3.—Canal Traffic<sup>1</sup> by Flag of Vessel—Fiscal Year 1985

Flag	Num- ber of transits	Measured tonnage			Long tons of cargo
		Panama Canal net	Registered gross <sup>2</sup>	Tolls	
Algeria.....	1	15,541	18,385	\$ 22,690	.....
Argentina.....	2	16,504	18,634	30,202	1,419
Australia.....	5	78,031	100,052	142,797	53,396
Austria.....	3	68,331	81,222	125,046	82,811
Bahamas.....	51	710,832	836,047	1,265,472	539,149
Belgium.....	130	1,546,018	1,666,681	2,793,797	1,138,817
Bermuda.....	13	122,750	151,009	209,697	85,921
Brazil.....	29	531,077	664,827	969,771	631,734
Bulgaria.....	9	55,784	66,021	102,085	32,367
Canada.....	6	41,551	56,510	75,371	68,352
Cayman Islands.....	13	123,387	76,261	218,480	49,620
Chile.....	82	838,671	948,618	1,494,733	749,824
Colombia.....	158	2,077,909	2,186,917	3,763,531	1,419,456
Costa Rica.....	6	5,682	5,952	10,398	2,829
Cuba.....	140	760,131	893,139	1,368,890	639,956
Cyprus.....	124	1,151,042	1,246,235	2,051,508	1,127,480
Czechoslovakia.....	1	8,811	10,416	16,124	13,892
Denmark.....	240	4,904,964	6,101,056	8,812,431	3,156,542
East Germany.....	26	168,552	195,864	296,700	39,644
Ecuador.....	500	4,263,189	4,914,573	7,367,564	2,675,272
Egypt.....	2	37,524	45,230	68,669	72,780
Faroës.....	3	3,818	1,500	6,987	1,488
Finland.....	18	186,954	229,423	327,208	159,802
France.....	66	1,079,907	885,850	1,995,218	747,794
Ghana.....	3	29,903	39,012	54,722	30,718
Greece.....	748	11,380,341	13,009,185	20,073,080	13,951,540
Honduras.....	18	83,279	102,859	140,690	23,886
Hong Kong.....	25	450,502	523,250	818,207	553,883
Iceland.....	1	4,092	4,808	7,488	5,413
India.....	23	482,776	577,010	869,134	678,919
Indonesia.....	3	27,171	29,544	49,723	24,400
Israel.....	70	1,413,888	1,866,480	2,587,415	946,443
Italy.....	76	1,008,497	1,261,444	1,833,490	727,190
Japan.....	1,142	22,852,603	18,243,365	39,279,434	10,080,593
Jordan.....	2	20,478	25,948	37,475	35,136
Kuwait.....	6	75,934	95,274	138,959	73,226
Liberia.....	1,302	25,360,337	25,320,131	44,621,901	24,082,801
Malaysia.....	22	397,304	470,128	727,066	652,072
Malta.....	17	167,064	243,163	302,505	184,271
Mauritania.....	1	580	350	847	.....
Mexico.....	110	1,983,978	2,442,822	3,297,492	1,411,365
Morocco.....	5	59,105	70,996	107,033	93,510
Netherlands.....	226	2,229,155	2,444,214	3,959,891	1,536,004
New Zealand.....	2	45,499	53,267	83,263	25,444
Nicaragua.....	11	24,753	20,021	41,661	9,331
Norway.....	305	5,516,206	5,961,386	9,779,604	4,994,595
Panama.....	1,971	26,754,689	26,732,609	47,084,630	23,131,882
People's Republic of China.....	99	1,839,808	2,070,176	3,364,935	2,005,746
Peru.....	166	1,561,955	1,874,767	2,800,169	1,672,145
Philippines.....	197	3,011,227	3,024,781	5,382,559	3,388,605
Poland.....	81	566,011	614,987	1,027,574	300,908
Portugal.....	1	945	1,127	1,729	591
Rumania.....	1	10,303	11,359	18,854	5,275
St. Vincent.....	2	34,210	39,814	62,604	55,161
Samoa.....	2	18,398	21,100	33,668	12,682
Saudi Arabia.....	5	52,035	43,756	92,773	29,239
Singapore.....	215	3,959,437	3,800,821	7,034,180	3,568,606
Somali Republic.....	3	27,945	31,629	51,139	21,266
South Korea.....	154	2,465,355	2,873,155	4,480,586	3,420,139
Spain.....	122	655,448	668,218	1,193,787	499,897
Sri Lanka.....	18	226,348	281,049	404,060	169,038
Sweden.....	109	2,693,815	2,160,673	4,870,481	1,077,479
Switzerland.....	73	747,970	892,692	1,365,466	424,154
Taiwan.....	168	4,099,840	5,003,859	7,450,775	3,216,562
Thailand.....	1	9,536	12,649	17,451	1,771
Turkey.....	2	7,774	9,222	12,788	6,435
United Arab Emirates.....	2	59,374	68,480	97,670	51,145
United Kingdom.....	503	8,931,608	10,620,238	16,052,118	8,770,978
United States.....	802	9,429,079	10,234,551	16,558,789	6,733,044
Uruguay.....	7	27,376	30,331	47,148	32,027
U.S.S.R.....	561	4,660,894	5,085,512	8,196,388	2,735,703
Vanuatu.....	1	442	299	809	25
Venezuela.....	119	275,882	357,667	512,715	222,880
Vietnam.....	1	7,906	9,123	14,468	8,414
West Germany.....	285	3,301,832	3,885,973	5,973,763	2,411,218
Yugoslavia.....	98	1,093,080	1,301,820	1,947,277	1,059,143
Total.....	11,515	168,940,927	175,967,516	\$298,497,802	138,643,243

<sup>1</sup> Includes only commercial vessels of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.).<sup>2</sup> Includes 8 transits where no registered tonnage was reported.

**Table 3.—Canal Traffic<sup>1</sup> by Flag of Vessel—Fiscal Year 1985—Continued**

NOTE.—In Canal traffic statistics, foreign naval vessels such as transports, supply ships, tankers, etc., with a measurement of 300 net tons (Panama Canal measurement) and over, and vessels of war, dredges, etc., with a displacement of 500 tons and over, are classified as oceangoing commercial vessels. Statistics on these vessels, except as related to displacement tonnage, have been included in the table above. As displacement tonnage cannot be combined with net tonnage, the following table shows statistics covering 17 vessels which transited the Canal during fiscal year 1985 and paid tolls on displacement tonnage.

<i>Flag</i>	<i>Type</i>	<i>Num- ber of transits</i>	<i>Displace- ment tonnage</i>	<i>Tolls</i>
Chile .....	Naval	1	1,515	\$1,545
Ecuador .....	Naval	1	1,000	1,020
France .....	Naval	4	24,494	24,984
Mexico .....	Naval	1	1,733	1,768
People's Republic of China .....	Dredge	1	17,530	17,881
Peru .....	Naval	1	11,564	11,795
Spain .....	Naval	1	3,750	3,825
United Kingdom .....	Naval	2	6,100	6,222
United States .....	Dredge	1	3,650	3,723
Venezuela .....	Naval	4	15,287	15,593
Total .....		17	86,623	\$88,355

Statistics compiled by Office of Executive Planning.



Table 4.—Classification of Canal Traffic<sup>1</sup> by Type of Vessel—Fiscal Year 1985

Type of Vessel	Laden			Ballast			Grand Total
	Atlantic to Atlantic	Pacific to Pacific	Total	Atlantic to Atlantic	Pacific to Pacific	Total	
<b>CARGO AND CARGO PASSENGER SHIPS:</b>							
Bulk Carriers:							
Number of transits .....	1,557	1,623	3,180	428	113	541	3,721
Panama Canal net tonnage (thousands) .....	31,906	32,958	64,864	13,189	1,595	14,785	79,649
Tolls (thousands of dollars) .....	\$58,397	\$60,313	\$118,710	\$19,257	\$2,329	\$21,585	\$140,295
Cargo (thousands of long tons) .....	45,220	29,508	74,728	.....	.....	.....	74,728
Container Cargo Ships:							
Number of transits .....	759	866	1,625	13	13	26	1,651
Panama Canal net tonnage (thousands) .....	13,869	17,848	31,717	147	107	254	31,972
Tolls (thousands of dollars) .....	\$25,381	\$32,662	\$58,043	\$215	\$156	\$371	\$58,415
Cargo (thousands of long tons) .....	8,733	11,214	19,947	.....	.....	.....	19,947
General Cargo Ships:							
Number of transits .....	869	849	1,718	95	94	189	1,907
Panama Canal net tonnage (thousands) .....	6,316	6,572	12,888	601	349	950	13,838
Tolls (thousands of dollars) .....	\$11,558	\$12,027	\$23,585	\$878	\$510	1,387	\$24,972
Cargo (thousands of long tons) .....	5,076	5,074	10,150	.....	.....	.....	10,150
Passenger Ships: <sup>2</sup>							
Number of transits .....	100	61	161	2	2	4	165
Panama Canal net tonnage (thousands) .....	1,658	970	2,628	20	31	51	2,678
Tolls (thousands of dollars) .....	\$3,033	\$1,775	\$4,808	\$29	\$45	\$74	\$4,883
Cargo (thousands of long tons) .....	.....	4	4	.....	.....	.....	4
Refrigerated Cargo Ships:							
Number of transits .....	522	938	1,460	407	38	445	1,905
Panama Canal net tonnage (thousands) .....	2,847	4,948	7,795	2,194	154	2,348	10,143
Tolls (thousands of dollars) .....	\$5,211	\$9,054	\$14,265	\$3,203	\$226	\$3,428	\$17,693
Cargo (thousands of long tons) .....	446	2,370	2,816	.....	.....	.....	2,816
Tank Ships:							
Number of transits .....	653	549	1,202	286	289	575	1,777
Panama Canal net tonnage (thousands) .....	9,283	9,476	18,759	6,227	4,073	10,300	29,059
Tolls (thousands of dollars) .....	\$16,988	\$17,341	\$34,329	\$9,092	\$5,946	\$15,038	\$49,367
Cargo (thousands of long tons) .....	14,317	15,967	30,285	.....	.....	.....	30,285

OTHER TYPE SHIPS:

<sup>1</sup> Includes only commercial vessels of 300 net tons and over (Panama Canal measurement for vessels paying tonnage dues) and over 500 displacement tons and over for vessels paying tonnage dues.

<sup>2</sup> Vessels certificated for more than 12 passengers.



**Table 5.—Laden and Ballast Traffic by Flag of Vessel  
Fiscal Year 1985**

	<i>Laden</i>			<i>Ballast</i>		
	<i>Number of transits</i>	<i>Panama Canal net tonnage</i>	<i>Tolls</i>	<i>Number of transits</i>	<i>Panama Canal net tonnage</i>	<i>Tolls</i>
Algeria . . . . .	2	16,504	\$ 30,202	1	15,541	\$22,690
Argentina . . . . .	5	78,031	142,797	.....	.....	.....
Australia . . . . .	3	68,331	125,046	.....	.....	.....
Austria . . . . .	40	615,291	1,125,983	11	95,541	139,490
Bahamas . . . . .	122	1,450,299	2,654,047	8	95,719	139,750
Belgium . . . . .	11	82,385	150,765	2	40,365	58,933
Bermuda . . . . .	28	525,401	961,484	1	5,676	8,287
Brazil . . . . .	9	55,784	102,085	.....	.....	.....
Bulgaria . . . . .	4	39,748	72,739	2	1,803	2,632
Canada . . . . .	9	103,609	189,604	4	19,778	28,876
Cayman Islands . . . . .	71	726,292	1,329,114	10	112,379	164,073
Chile . . . . .	143	1,972,388	3,609,470	15	105,521	154,061
Colombia . . . . .	6	5,682	10,398	.....	.....	.....
Costa Rica . . . . .	124	700,267	1,281,489	16	59,864	87,401
Cuba . . . . .	107	1,002,667	1,834,881	17	148,375	216,628
Cyprus . . . . .	1	8,811	16,124	.....	.....	.....
Czechoslovakia . . . . .	205	4,462,658	8,166,664	35	442,306	645,767
Denmark . . . . .	20	136,795	250,335	6	31,757	46,365
East Germany . . . . .	399	3,087,266	5,649,697	100	1,175,923	1,716,848
Egypt . . . . .	2	37,524	68,669	.....	.....	.....
Faroës . . . . .	3	3,818	6,987	.....	.....	.....
Finland . . . . .	15	146,636	268,344	3	40,318	58,864
France . . . . .	60	1,063,703	1,946,576	2	16,204	23,658
Ghana . . . . .	3	29,903	54,722	.....	.....	.....
Greece . . . . .	630	9,345,357	17,102,003	118	2,034,984	2,971,077
Honduras . . . . .	12	51,629	94,481	6	31,650	46,209
Hong Kong . . . . .	23	433,714	793,697	2	16,788	24,510
Iceland . . . . .	1	4,092	7,488	.....	.....	.....
India . . . . .	21	444,003	812,525	2	38,773	56,609
Indonesia . . . . .	3	27,171	49,723	.....	.....	.....
Israel . . . . .	70	1,413,888	2,587,415	.....	.....	.....
Italy . . . . .	73	975,904	1,785,904	3	32,593	47,586
Japan . . . . .	871	15,985,496	29,253,458	271	6,867,107	10,025,976
Jordan . . . . .	2	20,478	37,475	.....	.....	.....
Kuwait . . . . .	6	75,934	138,959	.....	.....	.....
Liberia . . . . .	1,081	20,498,090	37,523,021	221	4,862,247	7,098,881
Malaysia . . . . .	22	397,304	727,066	.....	.....	.....
Malta . . . . .	14	158,356	289,791	3	8,708	12,714
Mauritania . . . . .	59	1,078,692	1,974,006	50	905,286	1,321,718
Mexico . . . . .	4	56,052	102,575	1	3,053	4,457
Netherlands . . . . .	184	1,906,282	3,488,496	42	322,873	471,395
New Zealand . . . . .	2	45,499	83,263	.....	.....	.....
Nicaragua . . . . .	8	14,924	27,311	3	9,829	14,350
Norway . . . . .	253	4,664,712	8,536,423	52	851,494	1,243,181
Panama . . . . .	1,602	21,683,201	39,680,258	369	5,071,488	7,404,372
People's Republic of China . . . . .	95	1,786,311	3,268,949	3	53,497	78,106
Peru . . . . .	153	1,372,755	2,512,142	12	189,200	276,232
Philippines . . . . .	178	2,665,319	4,877,534	19	345,908	505,026
Poland . . . . .	76	543,779	995,116	5	22,232	32,459
Portugal . . . . .	1	945	1,729	.....	.....	.....
Rumania . . . . .	1	10,303	18,854	.....	.....	.....
Saint Vincent . . . . .	2	34,210	62,604	.....	.....	.....
Samoa . . . . .	2	18,398	33,668	.....	.....	.....
Saudi Arabia . . . . .	4	45,410	83,100	1	6,625	9,672
Singapore . . . . .	188	3,387,574	6,199,260	27	571,863	834,920
Somali Republic . . . . .	3	27,945	51,139	.....	.....	.....
South Korea . . . . .	147	2,381,534	4,358,207	7	83,821	122,379
Spain . . . . .	112	629,752	1,152,446	9	25,696	37,516
Sri Lanka . . . . .	15	198,896	363,980	3	26,452	40,080
Sweden . . . . .	105	2,533,814	4,636,880	4	160,001	233,601
Switzerland . . . . .	72	738,999	1,352,368	1	8,971	13,098
Taiwan . . . . .	163	3,959,482	7,245,852	5	140,358	204,923
Thailand . . . . .	1	9,536	17,451	.....	.....	.....
Turkey . . . . .	1	3,887	7,113	1	3,887	5,675
United Arab Emirates . . . . .	1	29,687	54,327	1	29,687	43,343
United Kingdom . . . . .	441	8,123,643	14,866,267	60	807,965	1,179,629
United States . . . . .	619	7,536,786	13,792,318	182	1,892,293	2,762,748
Uruguay . . . . .	4	19,402	35,506	3	7,974	11,642
U.S.S.R. . . . .	451	3,760,763	6,882,196	110	900,131	1,344,191
Vanuatu . . . . .	1	442	809	.....	.....	.....
Venezuela . . . . .	98	254,958	466,573	17	20,924	30,549
Vietnam . . . . .	1	7,906	14,468	.....	.....	.....
West Germany . . . . .	255	3,116,454	5,703,111	30	185,378	270,652
Yugoslavia . . . . .	90	949,675	1,737,905	8	143,405	209,371
Total . . . . .	9,613	139,849,136	\$ 255,935,431	1,885	29,091,791	\$ 42,474,015

Above table involves only commercial vessels of 300 net tons or over, Panama Canal measurement.

Table 6.—Segregation of Transits<sup>1</sup> by Registered Gross Tonnage—Fiscal Year 1985

Flag	Under 2,000	4,000	6,000	8,000	10,000	15,000	20,000	30,000	40,000 and over	Total <sup>2</sup>	Average gross tonnage per vessel
Algeria .....	2,000	4,000	6,000	10	10	10	10	10	10	1	18,385
Argentina .....	3,999	5,999	7,999	9,999	14,999	19,999	29,999	39,999	.....	2	18,634
Australia .....	.....	.....	.....	1	1	1	1	1	1	5	100,052
Austria .....	1	3	2	6	13	3	4	4	4	3	81,222
Bahamas .....	.....	.....	94	1	1	3	20	12	12	51	836,047
Belgium .....	.....	4	5	1	1	1	2	1	1	130	12,821
Bermuda .....	.....	.....	1	1	14	14	3	3	2	13	151,009
Brazil .....	2	1	2	4	4	4	.....	.....	8	29	664,827
Bulgaria .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	22,925
Canada .....	3	1	2	2	2	2	2	2	2	6	7,336
Cayman Islands .....	2	2	8	.....	.....	1	1	1	1	6	56,510
Chile .....	2	4	1	7	67	10	40	40	40	13	9,418
Colombia .....	15	10	2	.....	81	10	.....	.....	.....	81	5,866
Costa Rica .....	6	.....	.....	.....	.....	.....	.....	.....	.....	130	11,706
Cuba .....	.....	72	2	47	19	19	10	10	10	158	948,219
Cyprus .....	9	11	13	14	34	23	8	10	10	140	1,186,917
Czechoslovakia .....	55	3	3	1	10	10	7	7	7	6	2,186,917
Denmark .....	2	.....	2	.....	1	1	1	1	1	1	5,952
East Germany .....	4	2	.....	.....	10	10	7	7	7	240	6,101,056
Ecuador .....	7	34	8	6	6	6	6	6	6	26	19,864
Egypt .....	.....	42	185	72	53	74	32	32	32	499	7,533
Faroës .....	3	.....	.....	.....	.....	.....	2	2	2	2	4,914,205
Finland .....	2	.....	2	.....	8	5	.....	.....	.....	3	9,848
France .....	4	2	.....	.....	27	21	6	6	6	140	4,914,205
Ghana .....	22	4	11	49	92	210	136	69	69	748	17,392
Greece .....	4	2	2	10	5	1	6	6	6	18	1,246,235
Honduras .....	.....	4	2	.....	8	5	1	1	1	18	10,416
Hong Kong .....	1	1	1	1	2	2	8	4	4	60	884,447
Iceland .....	.....	.....	.....	3	3	3	5	5	5	3	14,741
India .....	.....	.....	3	.....	.....	.....	.....	.....	.....	23	39,012
Indonesia .....	.....	.....	3	.....	.....	.....	70	70	70	3	13,009,185
Israel .....	1	1	13	19	22	20	1	1	1	76	1,866,480
Italy .....	145	56	59	107	66	153	219	146	172	19	1,142
Japan .....	.....	.....	.....	.....	2	2	.....	.....	.....	2	16,598
Jordan .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23	18,243,365
Kuwait .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	12,974
Liberia .....	1	14	75	67	82	221	322	266	232	22	1,302
	1	14	75	67	82	221	322	266	232	22	19,447

## PANAMA CANAL COMMISSION

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Malaysia .....	2	2	5	7	2	2	4	22
Malta .....	3	2	2	1	11	23	6	17
Mauritania .....	10	1	5	1	35	3	51	1
Mexico .....	29	25	20	12	62	35	5	108
Morocco .....	9	4	5	2	1	1	14	5
Netherlands .....	195	162	198	150	211	19	80	226
New Zealand .....	2	38	12	8	38	29	13	2
Nicaragua .....	5	14	24	8	8	38	15	11
Norway .....	7	31	13	17	6	7	35	11
Panama .....	1	1	1	1	1	1	8	11
People's Republic of China .....	1	1	1	1	1	1	1	1
Peru .....	2	3	12	8	24	19	17	20
Philippines .....	1	7	31	13	17	6	7	11
Poland .....	1	1	1	1	1	1	1	1
Portugal .....	1	1	1	1	1	1	1	1
Rumania .....	1	1	1	1	1	1	1	1
Saint Vincent .....	1	1	1	1	1	2	1	1
Samoa .....	1	1	1	1	1	2	1	2
Saudi Arabia .....	1	2	9	30	32	31	35	2
Singapore .....	1	1	1	1	1	1	1	2
Somali Republic .....	1	1	1	1	1	1	1	1
South Korea .....	9	3	2	15	20	21	31	10
Spain .....	20	31	34	2	15	17	1	1
Sri Lanka .....	2	1	1	3	3	2	8	1
Sweden .....	11	1	1	1	1	1	1	1
Switzerland .....	11	1	1	1	1	1	1	1
Taiwan .....	1	1	1	1	1	1	1	1
Thailand .....	1	1	1	1	1	1	1	1
Turkey .....	1	1	1	1	1	1	1	1
United Arab Emirates .....	17	9	16	31	20	54	109	2
United Kingdom .....	271	29	5	8	15	126	176	101
United States .....	2	4	4	47	151	148	34	19
Uruguay .....	13	70	72	47	151	148	34	42
U.S.S.R. ....	1	13	13	17	17	17	4	42
Vanuatu .....	81	8	46	31	17	43	11	18
Venezuela .....	1	1	1	1	1	1	1	1
Vietnam .....	1	1	1	1	1	1	1	1
West Germany .....	8	46	46	31	17	43	11	32
Yugoslavia .....	971	673	686	4	40	39	5	5
Total .....	8.5	5.9	6.0	8.0	10.4	17.0	16.7	11.3
Percent of Total .....								100.0

<sup>1</sup> Includes only commercial vessels of 300 net tons and over, Panama Canal measurement.<sup>2</sup> Excludes 17 vessels paying tolls on displacement tonnage basis and 8 transits where no registered tonnage was reported.

Table 7.—Principal Commodities Shipped Through Canal by Fiscal Years

	South		North		Commodity	Pacific to Atlantic		
	1983	1984	1983	1984		1983	1984	1985
	518	565	459	Canned and Refrigerated Foods		3,202	2,743	2,889
	74	110	73	Canned Foods		182	222	171
3	2	3	Fish			52	33	43
6	24	7	Fruit			57	115	62
57	68	48	Milk			55	53	28
8	16	15	Other and unclassified			17	21	38
443	455	386	Refrigerated Foods			3,020	2,521	2,718
1	7	7	Bananas			883	811	888
6	6	7	Dairy Products			909	605	592
131	148	113	Fish			537	459	461
100	115	34	Fruit, excluding bananas			37	31	73
10	6	7	Meat			581	591	684
195	171	224	Other and unclassified			1,154	979	846
4,121	4,180	3,855	Chemicals and Petroleum Chemicals			5	41	65
674	927	714	Caustic soda			967	886	671
2,474	2,376	2,305	Chemicals, unclassified			182	52	110
973	837	877	Petroleum Chemicals, miscellaneous			2,929	1,839	1,556
9,161	8,115	8,553	Coal and Coke (excluding petroleum coke)			2,668	3,033	1,675
34,785	25,089	20,843	Grains			421	533	299
118	16	55	Barley			60	7	1
21,625	9,490	8,132	Corn			1	15	1
27	9	38	Oats			516	517	210
75	117	93	Rice			.....	.....	.....
1,345	1,322	2,269	Sorghum			10	61	10
7,039	6,837	6,382	Soybeans			1,656	1,757	1,084
4,478	7,213	3,742	Wheat			4	143	70
78	84	133	Other and unclassified			5,644	5,749	5,335
529	614	582	Lumber and Products			3,102	3,182	2,738
9	12	11	Boards and planks			802	878	981
20	14	21	Plywood, veneers, composition board			1,472	1,435	1,411
475	559	514	Pulpwood			268	254	205
25	30	37	Other and unclassified					

525	550	556	Machinery and Equipment.....	1,823	1,631	1,475
59	59	54	Agricultural machinery and implements .....	23	32	16
243	292	341	Automobiles, trucks, accessories and parts .....	1,589	1,464	1,305
104	91	79	Construction machinery and equipment .....	113	69	65
48	41	36	Electrical machinery and apparatus .....	39	29	33
2	2	2	Motorcycles, bicycles, and parts .....	4	9	19
69	64	44	Other and unclassified.....	54	28	37
1,632	1,842	2,725	Manufactures of Iron and Steel .....	5,092	5,424	3,563
123	168	150	Angles, shapes, and sections .....	426	294	403
10	54	6	Nails, tacks, and spikes .....	67	118	70
950	869	1,244	Plates, sheets, and coils .....	1,822	2,084	1,277
72	98	136	Tubes, pipes, and fittings .....	921	1,039	696
161	307	595	Wire, bars, and rods .....	279	420	314
316	347	594	Other and unclassified.....	1,578	1,470	803
228	177	225	Minerals, miscellaneous .....	4,194	3,691	3,070
20	18	21	Asbestos .....	2	4	3
12	5	.....	Borax .....	415	414	391
2	9	3	Infusorial earth .....	3	9	5
122	77	77	Salt .....	524	696	577
61	55	109	Soda and sodium compounds .....	198	136	149
11	13	16	Sulfur.....	3,051	2,431	1,945
7,950	8,617	9,530	Nitrates, Phosphates, and Potash	2,331	1,263	1,467
379	535	653	Ammonium compounds .....	15	48	26
1	.....	2	Fishmeal .....	1,297	725	823
27	84	34	Nitrate of soda .....	240	170	277
5,826	6,395	6,764	Phosphates .....	376	86	143
127	113	186	Potash .....	335	175	142
1,590	1,490	1,891	Fertilizers, unclassified .....	67	59	56
3,391	3,636	3,695	Ores and Metals .....	6,037	5,028	4,577
750	888	829	Ores .....	4,791	3,825	2,937
375	454	227	Alumina, bauxite .....	1,145	892	107
1	4	4	Chrome .....	55	71	11
1	.....	13	Copper .....	415	390	414
69	11	108	Iron .....	329	73	54
18	11	14	Lead .....	144	167	124
133	79	101	Manganese .....	170	91	88
.....	.....	1	Tin .....	25	32	31
97	131	73	Zinc .....	464	572	468
57	197	288	Other and unclassified .....	2,044	1,539	1,640

Table 7.—Principal Commodities Shipped Through Canal by Fiscal Years—Continued

	South			North		
	1983	1984	1985	1983	1984	1985
2,641	2,747	2,866	Metals . . . . .	1,246	1,203	1,640
397	309	256	Aluminum . . . . .	74	53	57
42	33	77	Copper . . . . .	818	885	1,162
238	87	134	Iron . . . . .	7	8	60
14	14	5	Lead . . . . .	96	85	129
1,846	2,227	2,318	Scrap . . . . .	5	3	2
15	12	11	Tin, including tinplate . . . . .	56	19	21
13	29	36	Zinc . . . . .	156	104	129
76	35	29	Other and unclassified . . . . .	35	46	80
1,953	1,603	1,384	Other Agricultural Commodities . . . . .	3,593	4,026	3,491
56	43	7	Beans, edible . . . . .	57	46	42
3	3	3	Cocoa and cacao beans . . . . .	76	49	31
19	9	12	Coffee, raw and processed . . . . .	414	458	467
.....	1	.....	Copra and coconuts . . . . .	11	11	14
28	15	12	Cotton, raw . . . . .	146	110	123
3	3	5	Molasses . . . . .	781	672	827
91	36	67	Oilseeds . . . . .	125	336	64
51	.....	.....	Peas, dry . . . . .	63	48	36
.....	.....	1	Rubber, raw . . . . .	98	96	61
1,701	1,493	1,273	Skins and hides . . . . .	7	3	3
1	12,555	10,837	Sugar . . . . .	1,799	2,179	1,803
13,727	12,555	10,837	Wool, raw . . . . .	17	19	20
90	155	74	Petroleum and Products . . . . .	15,936	18,107	20,191
4,547	3,898	3,397	Asphalt . . . . .	1	8	6
1,277	1,129	1,094	Crude oil . . . . .	9,029	10,267	14,123
3,318	3,007	2,378	Diesel oil . . . . .	755	815	569
1,352	983	1,206	Fuel oil, residual . . . . .	3,629	3,836	2,800
627	593	478	Gasoline . . . . .	659	760	347
45	104	45	Jet fuel . . . . .	12	77	9
799	737	713	Kerosene . . . . .	1	.....	.....
524	689	610	Liquefied natural gas . . . . .	28	46	28
712	460	664	Lubricating oil . . . . .	220	167	114
			Petroleum coke . . . . .	1,553	1,752	1,624

<u>436</u>	<u>798</u>	<u>178</u>	<u>Other and unclassified</u>	<u>52</u>	<u>378</u>	<u>571</u>
<u>9,309</u>	<u>10,717</u>	<u>10,908</u>	<u>Miscellaneous</u>	<u>9,889</u>	<u>8,698</u>	<u>7,627</u>
<u>21</u>	<u>24</u>	<u>41</u>	<u>Bricks and tile</u>	<u>13</u>	<u>11</u>	<u>5</u>
<u>4</u>	<u>4</u>	<u>29</u>	<u>Carbon black</u>	<u>5</u>	<u>1</u>	<u>1</u>
<u>64</u>	<u>174</u>	<u>255</u>	<u>Cement</u>	<u>5</u>	<u>5</u>	<u>7</u>
<u>380</u>	<u>357</u>	<u>417</u>	<u>Clay, fire and china</u>	<u>42</u>	<u>25</u>	<u>28</u>
<u>21</u>	<u>40</u>	<u>9</u>	<u>Fibers, plant</u>	<u>6</u>	<u>15</u>	<u>17</u>
<u>242</u>	<u>219</u>	<u>122</u>	<u>Flour, wheat</u>	<u>1</u>	<u>31</u>	<u>54</u>
<u>20</u>	<u>24</u>	<u>20</u>	<u>Glass and glassware</u>	<u>5</u>	<u>6</u>	<u>11</u>
<u>29</u>	<u>36</u>	<u>36</u>	<u>Groceries, miscellaneous</u>	<u>60</u>	<u>37</u>	<u>37</u>
<u>31</u>	<u>16</u>	<u>23</u>	<u>Liquors and wines</u>	<u>21</u>	<u>7</u>	<u>5</u>
<u>25</u>	<u>41</u>	<u>24</u>	<u>Marble and stone</u>	<u>1</u>	<u>1</u>	<u>1</u>
<u>4</u>	<u>4</u>	<u>2</u>	<u>Oil, coconut</u>	<u>54</u>	<u>92</u>	<u>91</u>
<u>8</u>	<u>17</u>	<u>17</u>	<u>Oil, fish</u>	<u>174</u>	<u>164</u>	<u>87</u>
<u>245</u>	<u>247</u>	<u>190</u>	<u>Oil, vegetable</u>	<u>151</u>	<u>95</u>	<u>108</u>
<u>702</u>	<u>761</u>	<u>854</u>	<u>Paper and paper products</u>	<u>461</u>	<u>368</u>	<u>514</u>
<u>1</u>	<u>3</u>	<u>4</u>	<u>Porcelainware</u>	<u>1</u>	<u>3</u>	<u>3</u>
<u>210</u>	<u>168</u>	<u>312</u>	<u>Resin</u>	<u>3</u>	<u>3</u>	<u>6</u>
<u>29</u>	<u>45</u>	<u>21</u>	<u>Rubber, manufactured</u>	<u>34</u>	<u>38</u>	<u>49</u>
<u>34</u>	<u>1</u>	<u>1</u>	<u>Seeds, excluding oilseeds</u>	<u>12</u>	<u>10</u>	<u>3</u>
<u>15</u>	<u>72</u>	<u>8</u>	<u>Slag, clinkers, and dross</u>	<u>15</u>	<u>1</u>	<u>1</u>
<u>67</u>	<u>66</u>	<u>67</u>	<u>Tallow</u>	<u>57</u>	<u>40</u>	<u>39</u>
<u>48</u>	<u>47</u>	<u>65</u>	<u>Textiles</u>	<u>38</u>	<u>43</u>	<u>41</u>
<u>46</u>	<u>10</u>	<u>4</u>	<u>Tobacco and manufactures</u>	<u>4</u>	<u>4</u>	<u>3</u>
<u>13</u>	<u>16</u>	<u>7</u>	<u>Wax, paraffin</u>	<u>11</u>	<u>17</u>	<u>3</u>
<u>7,050</u>	<u>8,326</u>	<u>8,397</u>	<u>All other and unclassified</u>	<u>8,717</u>	<u>7,681</u>	<u>6,514</u>
<u>87,829</u>	<u>78,259</u>	<u>74,151</u>	<u>Total</u>	<u>64,492</u>	<u>62,212</u>	<u>57,762</u>

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985  
Segregated by Countries in Principal Trade Routes

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See footnotes at end of table.

**Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985**  
**Segregated by Countries in Principal Trade Areas—Continued**

EUROPE:											
Belgium .....	83,812	9,691	29,319	89,464	28,260	240,546	4,286	13,478	27,094	5,680	50,538
France .....	5,269	6,286	6,429	27,639	6,957	52,580	2,837	169,168	101	29,120	201,226
Italy .....	6,102	9,136	9,406	5,186	6,003	35,833	1,340	7,215	9,736	8,479	26,770
Netherlands .....	33,947	3,464	27,976	45,737	8,179	119,303	42,299	9,576	39,584	44,803	136,262
Norway .....	707	.....	.....	.....	354	1,061	18,062	.....	.....	.....	18,062
Spain-Portugal .....	26,124	7,541	141,859	15,604	11,057	202,185	809	767	2,000	6,062	9,638
Sweden .....	25,845	4,410	6,723	8,454	5,841	51,273	159	.....	1,236	1,800	3,195
United Kingdom .....	30,966	5,216	10,675	19,840	2,077	68,774	12,231	647	43,709	46,289	102,876
U.S.S.R .....	.....	.....	750	12,987	104,150	117,887	.....	.....	.....	.....	.....
West Germany .....	73,760	20,319	48,276	35,336	17,906	195,597	5,926	6,312	20,515	23,802	56,555
Europe (other) <sup>1</sup> .....	63,332	36,165	87,694	50,122	56,480	293,793	20,727	40,594	18,360	95,434	175,115
Total Europe .....	349,864	102,228	369,107	310,369	247,264	1,378,832	108,676	247,757	162,335	261,469	780,237
ASIA (MIDDLE EAST):											
AFRICA:											
Grand total .....	2,387	30	77	152	4,882	7,528	5,984	.....	.....	579	6,563
Percent of Pacific-Bound Cargo .....	<u>2,953,270</u>	<u>1,343,217</u>	<u>1,766,183</u>	<u>1,313,802</u>	<u>597,214</u>	<u>7,973,686</u>	<u>1,601,903</u>	<u>247,798</u>	<u>680,009</u>	<u>609,399</u>	<u>3,139,109</u>
	<u>4.0</u>	<u>1.8</u>	<u>2.4</u>	<u>1.8</u>	<u>0.8</u>	<u>10.8</u>	<u>2.2</u>	<u>0.3</u>	<u>0.9</u>	<u>0.8</u>	<u>4.2</u>

See footnotes at end of table.

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985  
Segregated by Countries in Principal Trade Areas—Continued

[Long tons]														
To Asia														
	China (Main- land) (Taiwan)	Hong Kong	Indo- nesia	Japan	Philip- pine Islands	Singa- pore	South Korea	Thai- land	U.S.S.R	Asia (other) <sup>1</sup>	Total		Percent of total Pacific- bound cargo	Grand total
EAST COAST NORTH AMERICA:														
United States:														
North Atlantic ports	338,651	1,001,669	111,856	5,552	3,327,508	56,267	68,478	1,038,478	2,027	18,423	458,915	6,427,824	7,442,459	
South Atlantic ports	298,578	105,645	128,947	5,938	839,936	7,145	29,952	45,870	.....	.....	335,737	1,817,768	2,305,761	
Great Lakes ports	28,319	1,518	532	.....	116,535	.....	59,158	17,513	.....	.....	223,625	342,015	3,1	
Gulf ports	2,393,846	4,176,773	288,226	119,430	18,484,869	241,798	71,351	3,05,794	90,127	579,494	661,124	30,218,832	38,347,405	
United States (other) <sup>1</sup>	247,518	284,750	267,797	17,040	576,195	22,948	94,640	214,183	9,313	.....	559,465	2,293,849	2,926,656	
Total United States	3,306,912	5,570,355	797,358	147,960	23,365,113	328,158	264,421	4,463,483	118,980	597,917	2,015,241	40,975,898	51,364,296	
EAST COAST CANADA	436,801	34,846	33,015	5,904	696,144	56	94	57,342	15,465	.....	245,995	1,525,662	1,786,449	
EAST COAST CENTRAL AMERICA:														
Mexico	15,574	11,185	7,121	.....	122,157	139	5,832	17,776	22,003	.....	16,155	217,942	3,893,172	
Panama	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	189,371	
Central America (other) <sup>1</sup>	.....	.....	1,217	.....	15,876	.....	.....	.....	.....	.....	3,145	20,238	40,618	
Cristobal, R.P. <sup>2</sup>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,260	1,309	7,609	
Total Central America	15,574	12,402	7,121	.....	138,033	139	5,881	17,776	22,003	.....	20,560	239,489	4,130,770	
EAST COAST SOUTH AMERICA:														
Brazil	24,176	.....	.....	.....	159,295	.....	.....	3,371	11,684	.....	.....	198,526	1,232,022	
Colombia	.....	.....	.....	.....	57,357	.....	.....	.....	.....	.....	57,357	625,046	0.8	
Venezuela	29,1251	2,344	45,951	.....	890,552	.....	.....	25,458	.....	.....	1,996	1,257,532	3,619,759	
South America (other) <sup>1</sup>	9,200	.....	.....	.....	39,003	.....	.....	.....	.....	.....	53,781	160,565	0.2	
Total South America	324,627	2,344	45,951	.....	1,146,207	.....	3,371	42,720	.....	.....	1,996	1,567,216	5,637,392	
WEST INDIES:														
Cuba	623,219	.....	.....	.....	451,832	.....	.....	33,578	.....	135,763	48,761	1,293,153	1,403,300	
Jamaica	.....	21,466	8,034	.....	20,945	227	2,503	9,469	.....	.....	49,122	111,766	198,083	
Netherlands West Indies	.....	.....	3,300	8,353	2,450	10,247	.....	1,583	.....	.....	18,094	44,027	88,3740	
Trinidad, Tobago	40,494	.....	15	.....	54,267	.....	.....	.....	.....	.....	631	95,392	267,065	
West Indies (other) <sup>1</sup>	1,151	16,318	.....	15	18,638	.....	.....	2,000	.....	.....	30,517	68,659	346,048	
Total West Indies	664,864	37,784	8,049	3,300	554,055	2,677	12,750	45,047	1,583	135,763	147,125	1,612,997	3,098,236	

<sup>1</sup> Includes cargo not routed to permit segregation between definite countries.

<sup>2</sup> Includes both local and transshipped cargo.

Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas

[Long tons]

	To East Coast United States						To E.C. Canada						To East Coast Central America						Central America (other)			Cristobal R.P. <sup>2</sup>			Total		
	North Atlantic ports			Great Lakes ports			United States (other) <sup>1</sup>			Canada			Mexico			Panama (other) <sup>1</sup>			Central America (other)			Cristobal R.P. <sup>2</sup>			Total		
	South	Atlantic	ports	Gulf	Lakes	ports	Total	220,764	174,963	Total	271,300	10,024	Total	400	525	Total	400	525	Total	10,949	10,949	Total	400	525	Total		
WEST COAST NORTH AMERICA:																											
United States:	56,577	550	.....	164,187	.....	1,347	220,764	220,764	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Alaska .....	27,885	92,172	.....	145,181	.....	2,197,427	212,181	2,728,980	213,528	3,124,707	271,300	10,024	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hawaii .....	536,568	.....	.....	1,888,059	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Mainland .....	621,030	92,722	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Total United States .....	937,280	424,790	8,073	574,532	.....	393,560	2,338,235	7,171	46,008	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46,008		
WEST COAST CANADA .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
WEST COAST CENTRAL AMERICA:																											
Costa Rica .....	6,703	34,754	.....	30,847	.....	4,353	76,657	1,034	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15,552		
El Salvador .....	22,144	9,087	.....	65,767	9,287	245,679	206,285	245,679	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15,586		
Guatemala .....	96,866	20,218	.....	73,088	55,507	.....	11,253	18,034	34,409	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20,210		
Honduras .....	.....	6,781	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70		
Mexico .....	23,668	160	.....	35,848	34,733	.....	17,486	17,486	202,228	1,054	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31			
Nicaragua .....	.....	4,518	.....	.....	104,554	14,022	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	453			
Panama .....	79,134	.....	.....	.....	.....	574	.....	574	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	.....	.....	.....	.....	.....	1,490			
Central America (other) <sup>1</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,490			
Balboa, R.P. <sup>2</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
Total Central America .....	228,515	79,518	.....	.....	339,417	117,902	761,352	2,108	302,188	.....	.....	.....	.....	.....	.....	.....	.....	23,544	.....	.....	.....	.....	.....	23,544	347,296		
WEST COAST SOUTH AMERICA:																											
Chile .....	859,162	100,801	.....	299,152	184,217	1,443,332	102,049	41,072	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,901	746	.....	.....	.....	.....	.....	43,719		
Colombia .....	93,792	56,584	.....	119,195	78,799	348,370	64	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	67	796	.....	.....	.....	.....	.....	54		
Ecuador .....	95,066	54,477	.....	2,546,580	266,633	3,817,756	120	283	4,352	8,620	.....	.....	.....	.....	.....	.....	.....	260	1,223	662,245	.....	.....	.....	.....	10,103		
Peru .....	895,678	88,766	2,002	764,992	229,600	1,98,038	177	177	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,521	.....	.....	.....	.....	2,521		
South America (other) <sup>1</sup> .....	31,485	11,845	.....	19,627	7,154	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	661,099	2,228	.....	.....	.....	.....	.....			
Total South America .....	2,830,183	312,473	2,002	3,749,546	766,403	7,660,607	106,762	50,029	.....	.....	.....	.....	.....	.....	.....	.....	.....	661,099	2,228	5,286	.....	.....	.....	.....	718,642		
OCEANIA:																											
Australia .....	298,953	47,293	22,084	1,729,564	62,773	2,160,667	44,048	17,716	142,252	70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	142,322			
British Oceania .....	4,066	.....	.....	39,982	.....	13,387	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
French Oceania .....	13,525	.....	.....	.....	62,275	19,837	23,363	26,838	30,242	79	.....	.....	.....	.....	.....	.....	.....	178	.....	.....	.....	.....	.....	178			
New Zealand .....	130,774	17,477	.....	.....	36,219	28,125	37,112	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30,499			
Oceania (other) <sup>1</sup> .....	160,517	35,705	.....	48,774	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	149	.....	.....	.....	.....	.....	178			
Total Oceania .....	607,835	100,475	22,084	1,880,595	118,891	2,729,880	418,152	172,494	.....	.....	.....	.....	.....	.....	.....	.....	.....	149	.....	.....	.....	.....	.....	178	172,821		

ASIA:													
China	178,731	21,477	6,381	1,119,905	86,918	1,413,412	82,946	.....	.....	566	13,176	.....	.....
Taiwan	430,986	137,313	46,421	234,202	848,922	30,162	.....	.....	275	4,535	4,810	13,742	1,534
Hong Kong	189,394	81,583	.....	6,211	116,739	393,895	25,317	.....	.....	.....	.....	.....	6,432
Indonesia	72,090	59,393	.....	101,144	173,166	405,793	1,534	.....	.....	2,364	31,294	1,017	1,017
Philippines	207,174	9,306,699	347,599	3,024,341	768,010	3,065,823	285,74	.....	.....	1,016	.....	1	424
Singapore	198,442	24,690	.....	25,862	231,363	480,357	5,027	.....	.....	130	294	424	6,352
South Korea	170,819	72,865	.....	64,245	100,992	408,921	518	.....	.....	1,626	4,726	41,668	41,668
Thailand	218,671	104,404	63	392,093	297,196	1,012,427	16,455	.....	.....	.....	.....	.....	.....
U.S.S.R.	680	.....	.....	84,101	14,110	98,891	41,668	.....	.....	.....	.....	.....	.....
Asia (other) <sup>1</sup>	1,273,276	555,106	.....	.....	.....	.....	.....	.....	.....	8,613	78,886	95,912	227,891
Total Asia	4,768,263	1,987,530	354,043	5,201,356	2,580,534	14,891,726	4,228,25	81,205	.....	13,774	132,912	.....	.....
Grand total	9,991,106	2,993,508	386,202	13,942,873	4,190,818	31,506,507	1,229,318	661,948	661,248	39,946	160,465	1,523,607	2,4
Percent of Atlantic-Bound Cargo	15.5	4.6	0.6	21.6	6.5	48.9	1.9	1.0	1.0	0.1	0.2	0.1	2.4

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See footnotes at end of table.

Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas—Continued

[Long tons]

	To East Coast South America						To West Indies						West Indies (other) <sup>1</sup>	Total		
	Brazil	Colombia		South America (other) <sup>1</sup>		Total	Haiti/ Dominican Republic		Jamaica	Nether- lands West Indies		Puerto Rico	Trini- dad/ Tobago			
		Vene- zuela	Colom- bia	South America (other) <sup>1</sup>	Colom- bia		Cuba	Dominican Republic	Jamaica	Nether- lands West Indies	Puerto Rico	Trini- dad/ Tobago				
WEST COAST NORTH AMERICA:																
United States:																
Alaska		5,875	64,151	2,312	153,628		5,875	112	59	.....	54,677	497,896	552,632			
Hawaii		8,199	78,966	70,026	2,312	159,503	.....	575	149,708	73,303	54,677	180,563	404,149	112		
Mainland		8,199	78,966	70,026	2,312	159,503	.....	634	149,708	73,303	54,677	678,459	956,893			
Total United States		1,191	293,297	11	885,421	163,782	.....	18,069	.....	32,857	.....	9,976	224,684			
WEST COAST CANADA		590,922	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
WEST COAST CENTRAL AMERICA:																
Costa Rica		20,690	.....	20,690	.....	9,457	.....	.....	808	18,509	500	.....	.....	1,308		
El Salvador		9,457	.....	.....	.....	.....	.....	.....	9,842	.....	5,621	2,677	10,179	31,365		
Guatemala		.....	.....	.....	.....	.....	.....	.....	.....	.....	19,823	2,952	.....	18,415		
Honduras		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	656	461	20,479		
Mexico		1,184	399	3	402	1,472	1,029	73	.....	.....	714	.....	461	8,277		
Nicaragua		215	328	443	300	76	402	18,282	.....	.....	.....	.....	.....	18,282		
Panama		.....	.....	24,844	300	399	25,141	1,792	3,042	639	1,002	8,166	.....	9,958		
Central America (other) <sup>1</sup>		.....	.....	.....	.....	.....	.....	.....	.....	.....	63,957	.....	850	69,490		
Balboa, R.P. <sup>2</sup>		88	.....	.....	.....	88	.....	.....	.....	.....	.....	.....	.....	.....		
Total Central America		10,088	47,111	822	58,021	30,145	712	11,652	18,509	78,958	25,452	12,146	177,574			
WEST COAST SOUTH AMERICA:																
Chile		8,181	95,609	535	104,325	.....	.....	29,720	.....	.....	22,974	.....	10,785	63,479		
Colombia		784,456	104,775	2,000	891,231	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Ecuador		566	120,629	2,351	123,546	.....	.....	236,430	152,967	1,951,728	52,375	64,963	2,458,463			
Peru		11,428	80,863	81,027	4,512	177,830	15,442	368	.....	154,064	1,166,289	.....	117,795	1,453,958		
South America (other) <sup>1</sup>		92	8,891	10,470	3,578	23,031	35,252	250	.....	.....	3,388	.....	.....	38,890		
Total South America		12,086	1,003,020	294,232	10,625	1,319,963	50,694	30,088	236,680	307,031	3,144,379	52,375	193,543	4,014,790		
OCEANIA:																
Australia		.....	.....	688	.....	.....	.....	.....	334	850	46,815	7,190	6,140	61,329		
British Oceania		.....	.....	.....	.....	.....	.....	.....	.....	.....	338	.....	.....	338		
French Oceania		1,012	19,386	.....	.....	.....	.....	.....	.....	440	.....	2,666	9,835	35,110		
New Zealand		.....	.....	.....	.....	.....	.....	20,398	13,210	8,692	410	55,725	.....	56,135		
Oceania (other) <sup>1</sup>		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Total Oceania		1,012	20,074	.....	.....	.....	.....	21,086	13,210	8,692	1,011	1,290	10,2878	15,975	152,912	

See footnotes at end of table.



Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas—Continued

[Long tons]

To Europe														
	Belgium	Denmark	East Germany	Finland	France	Italy	Nether-lands	Spain/ Portugal	Sweden	United Kingdom	U.S.S.R.	West Germany	Europe (other) <sup>1</sup>	Total
WEST COAST NORTH AMERICA:														
United States:														
Alaska .....						12								
Hawaii .....														
Mainland .....	392,508	566				99,710	195,255	1,827,915	202,503	44,910	179,061	41,594	127,428	452,398
Total United States .....	392,508	566				99,722	195,255	1,827,915	203,910	44,910	179,061	41,594	127,623	3,563,848
WEST COAST CANADA .....	869,335	445,985	373,064	384,843	664,146	473,922	825,031	32,079	329,593	870,849	121,951	275,007	1,292,328	6,958,133
WEST COAST CENTRAL AMERICA:														
Costa Rica .....														
El Salvador .....	41					389	2,614	625	31					
Guatemala .....	697					20,547	1,816	2,025	3,212					
Honduras .....			2,486				33,539	30	23					
Mexico .....							4,428	66	8,990					
Nicaragua .....					17	6,688	4,341	4,531	56,832	2,000	4,451			
Panama .....	44,693		8,783			1,989	279	11,852	3,917		498			
Central America (other) <sup>1</sup> .....	18					33,203	19,232	1,847						
Balboa, R.P. <sup>2</sup> .....	2,241					5,533	2,713	1,395	4,995		800	189	43,215	26,109
Total Central America .....	24									30		133		16
	47,714	17	11,269		35,146	82,933	39,756	79,877		2,000	7,252	6,600	227,424	120,304
														660,292
WEST COAST SOUTH AMERICA:														
Chile .....	186,971	1,111	70,802		89,329	185,331	323,059	41,623	32,893	111,196			440,113	213,735
Colombia .....	13,406				265	86	32,310	2,648	1,335	994			121,560	7,050
Ecuador .....	57,402	104	19,557	109	8,080	47,215	55,151	5,170	653	15,518	31,354		108,611	131,025
Peru .....	351,539	64	1,182	37,187	36,328	108,585	70,280	32,394	8,152	61,187	193,440		206,327	396,670
South America (other) <sup>1</sup> .....	12,802				35,822	51,183	55,419	25,509	2,182	27,629	508,470		35,459	112,897
Total South America .....	622,120	1,279	91,541	37,296	169,824	392,400	536,219	107,344	452,152	216,524	733,364	912,070	861,377	4,726,473
OCEANIA:														
Australia .....	7,828						2,793	13,016			11,387		8,991	6,151
British Oceania .....		3,425							27,559		138,137			29,528
French Oceania .....	18,601					55,235	4,774		489				46,133	125,232
New Zealand .....	88,929		1,347			14,567	1,570	235,332		6,374	27,254		15,683	40,434
Oceania (other) <sup>1</sup> .....	12,952					25	1,226	9,175			37,931		7,452	20,562
Total Oceania .....	128,310	3,425	1,347		69,827	10,363	257,523	28,048	6,374	214,709		32,126	142,808	894,860
ASIA:														
China .....														
Taiwan .....						607		2,708						173
Hong Kong .....						1,606		1,567	536				86	3,488
Indonesia .....														3,795
Japan .....		3,717				3,634		49,079	786		7,514		5,964	17,046
Philippine Islands .....								12,378						12,378
Singapore .....						119		424						543
South Korea .....						67		1,390	170					71
Thailand .....														1,698
U.S.S.R. .....														
Asia (other) <sup>1</sup> .....	41					1,925	511	65	2,773		141		152	4,099
Total Asia .....	3,758					7,958	511	67,611	4,265		7,655	13,591	6,116	21,475
Grand total .....	2,063,745	451,272	477,221	422,139	1,046,623	1,155,384	3,554,055	455,523	428,092	1,496,050	917,000	1,580,366	2,953,992	17,001,462
Percent of Atlantic-Bound Cargo .....		3.2	0.7	0.7	0.7	1.6	1.8	5.5	0.7	0.7	2.3	1.4	2.5	4.6
														26.4

See footnotes at end of table.





Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas—Continued

	To Africa						Percent of total Atlantic- bound cargo		
	To Asia (Middle East)	To Asia (Middle East)	Egypt	Morocco	South Africa	Tunisia	Africa (other) <sup>1</sup>	Total	Grand Total
WEST COAST NORTH AMERICA:									
United States:									
Alaska .....	.....	.....	3,064	.....	.....	.....	.....	3,064	814,803
Hawaii .....	.....	.....	.....	.....	.....	.....	.....	207,523	0.3
Mainland .....	40,290	85,771	331,285	85,494	64,716	.....	175,511	742,777	7,915,921
Total United States .....	40,290	85,771	334,349	85,494	64,716	.....	175,511	745,841	8,938,247
WEST COAST CANADA .....	266,456	240,426	530,030	673,561	130,176	387,918	108,018	2,070,429	12,796,237
WEST COAST CENTRAL AMERICA:									
Costa Rica .....	.....	1,274	.....	.....	.....	.....	497	.....	497
El Salvador .....	.....	4,142	.....	.....	.....	.....	343	.....	343
Guatemala .....	.....	.....	.....	.....	.....	.....	11,405	11,405	340,037
Honduras .....	.....	2,202	5,954	.....	.....	.....	.....	5,954	66,381
Mexico .....	.....	44,341	28,864	.....	.....	.....	.....	.....	642,195
Nicaragua .....	.....	.....	.....	.....	.....	.....	5,429	5,429	34,293
Panama .....	.....	.....	.....	.....	.....	.....	1,679	1,679	164,868
Central America (other) <sup>1</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	331,008
Balboa, R.P. <sup>2</sup> .....	.....	.....	.....	.....	.....	.....	.....	.....	181,949
Total Central America .....	51,959	34,818	.....	.....	.....	.....	840	18,513	2,355
WEST COAST SOUTH AMERICA:									
Chile .....	15,681	.....	940	.....	.....	7,997	790	9,727	3,478,475
Colombia .....	.....	23,607	.....	.....	.....	.....	2,823	2,823	1,419,373
Ecuador .....	20,559	.....	.....	.....	.....	.....	9,882	9,882	7,568,509
Peru .....	4,830	.....	.....	.....	.....	1,504	10,337	11,841	5,161,057
South America (other) <sup>1</sup> .....	64,677	.....	.....	.....	.....	.....	.....	.....	1,018,773
Total South America .....	64,677	.....	940	.....	.....	9,501	23,832	34,273	18,646,187
OCEANIA:									
Australia .....	.....	.....	.....	.....	.....	.....	.....	.....	2,751,638
British Oceania .....	.....	.....	.....	.....	.....	.....	.....	.....	260,751
French Oceania .....	.....	43,179	.....	.....	1,968	.....	.....	499	138,819
New Zealand .....	.....	.....	.....	.....	.....	.....	.....	499	820,344
Oceania (other) <sup>1</sup> .....	.....	43,179	.....	.....	.....	.....	.....	499	463,785
Total Oceania .....	.....	43,179	.....	.....	1968	.....	.....	499	45,646

ASIA:		Percent of Atlantic-Bound Cargo				
China	411	.....	.....	.....	.....	2.6
Taiwan	86	.....	.....	.....	.....	1.5
Hong Kong	.....	.....	.....	.....	463,893	0.7
Indonesia	.....	.....	.....	.....	526,293	0.8
Japan	943	.....	.....	100	.....	1,674,929
Philippine Islands	.....	.....	.....	.....	.....	957,556
Singapore	9	.....	.....	.....	.....	463,893
South Korea	.....	.....	.....	.....	526,293	0.8
Thailand	.....	.....	.....	.....	.....	.....
U.S.S.R.	.....	.....	.....	.....	.....	.....
Asia (other) <sup>1</sup>	8,158	.....	.....	.....	.....	.....
Total Asia	9,607	.....	.....	100	.....	5,218
Grand total	432,989	404,194	865,319	761,023	194,992	8,426,137
	0.7	0.6	1.32	1.2	0.3	13.1
					0.6	0.5
					0.6	0.6
					0.5	4.6
						100.0

<sup>1</sup> Also includes cargo not routed to permit segregation between definite countries.

<sup>2</sup> Includes both local and transshipped cargo.

Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>EAST COAST UNITED STATES TO WEST COAST</b>			
<b>UNITED STATES:</b>			
Canned and refrigerated foods, miscellaneous.....	5	1	1
Chemicals and petroleum chemicals .....	<u>321</u>	<u>383</u>	<u>309</u>
Caustic soda .....	93	188	127
Chemicals, unclassified .....	116	86	54
Petroleum chemicals, miscellaneous .....	112	109	128
Machinery and equipment, miscellaneous .....	.....	3	8
Manufactures of iron and steel .....	.....	14	.....
Other and unclassified .....	.....	14	.....
Nitrates, phosphates, and potash.....	<u>38</u>	<u>64</u>	<u>76</u>
Ammonium compounds .....	16	15	49
Phosphates.....	22	49	27
Ores and metals .....	.....	137	30
Ore, alumina/bauxite.....	.....	137	30
Petroleum and products .....	<u>530</u>	<u>479</u>	<u>800</u>
Fuel oil, residual.....	37	61	381
Gasoline .....	147	75	87
Jet fuel .....	28	32	45
Lubricating oil .....	260	251	186
Petroleum coke .....	57	.....	.....
Other and unclassified .....	1	60	101
Miscellaneous .....	<u>472</u>	<u>514</u>	<u>413</u>
All other and unclassified .....	<u>472</u>	<u>514</u>	<u>413</u>
Total.....	<u>1,366</u>	<u>1,595</u>	<u>1,637</u>
<b>EAST COAST UNITED STATES TO WEST COAST CANADA:</b>			
Nitrates, phosphates, and potash.....	<u>808</u>	<u>937</u>	<u>569</u>
Phosphates.....	<u>808</u>	<u>937</u>	<u>569</u>
Miscellaneous .....	<u>10</u>	<u>9</u>	<u>27</u>
All other and unclassified .....	<u>10</u>	<u>9</u>	<u>27</u>
Total.....	<u>818</u>	<u>946</u>	<u>596</u>
<b>EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA:</b>			
Chemicals and petroleum chemicals, miscellaneous .....	16	10	20
Coal .....	<u>322</u>	.....	88
Grains.....	<u>760</u>	<u>697</u>	<u>1,924</u>
Corn .....	95	227	860
Sorghum .....	131	104	379
Soybeans .....	294	148	461
Wheat .....	236	210	219
Other and unclassified .....	4	8	5
Lumber and products, miscellaneous .....	.....	6	2
Machinery and equipment, miscellaneous .....	.....	2	3
Manufactures of iron and steel, miscellaneous .....	2	.....	5
Minerals, miscellaneous .....	.....	<u>13</u>	1
Borax .....	.....	.....	.....
Soda and sodium compounds .....	.....	8	.....
Sulfur .....	.....	5	.....
Nitrates, phosphates, and potash .....	<u>490</u>	<u>291</u>	<u>334</u>
Ammonium compounds .....	116	76	117
Fertilizers, unclassified .....	136	85	121
Phosphates .....	219	119	71
Potash .....	19	11	25
Other agricultural commodities .....	<u>59</u>	<u>89</u>	<u>77</u>
Oilseeds .....	<u>59</u>	<u>26</u>	<u>55</u>

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA—Continued</b>			
Other agricultural commodities—Continued			
Sugar .....	.....	63	22
Petroleum and products .....	171	95	54
Diesel oil .....	37	.....	2
Gasoline .....	13	1	2
Fuel oil, residual .....	94	78	45
Lubricating oil .....	6	10	5
Petroleum products, miscellaneous .....	21	6	.....
Miscellaneous .....	64	78	85
Flour, wheat .....	1	.....	2
Paper and paper products .....	17	23	30
Tallow .....	22	14	10
All other and unclassified .....	24	41	43
Total .....	<u>1,884</u>	<u>1,281</u>	<u>2,593</u>
<b>EAST COAST UNITED STATES TO WEST COAST SOUTH AMERICA:</b>			
Canned and refrigerated foods, miscellaneous .....	23	36	29
Chemicals and petroleum chemicals .....	231	183	186
Caustic soda .....	61	42	45
Chemicals, unclassified .....	164	128	134
Petroleum chemicals, miscellaneous .....	6	13	7
Coal and coke .....	162	161	227
Grains .....	<u>1,772</u>	<u>2,806</u>	<u>3,100</u>
Corn .....	91	347	619
Oats .....	1	3	7
Rice .....	37	85	20
Sorghum .....	85	22	122
Soybeans .....	154	137	162
Wheat .....	1,403	2,210	2,165
Other and unclassified .....	1	2	5
Lumber and products .....	8	7	15
Pulpwood .....	4	5	13
Other and unclassified .....	4	2	2
Machinery and equipment .....	52	66	67
Agricultural machinery and implements .....	15	18	19
Automobiles, trucks, accessories, and parts .....	14	19	22
Construction machinery and equipment .....	14	18	13
Electrical machinery and apparatus .....	6	8	6
Other and unclassified .....	3	3	7
Manufactures of iron and steel .....	26	30	30
Angles, shapes, and sections .....	5	3	9
Plates, sheets, and coils .....	5	6	4
Tubes, pipes, and fittings .....	7	12	7
Wire, bars, and rods .....	3	3	8
Other and unclassified .....	6	6	2
Minerals, miscellaneous .....	45	14	23
Soda and sodium compounds .....	36	14	18
Sulfur .....	7	.....	2
Other and unclassified .....	2	.....	3
Nitrates, phosphates, and potash .....	<u>445</u>	<u>417</u>	<u>282</u>
Ammonium compounds .....	13	22	8
Fertilizers, unclassified .....	147	230	150
Phosphates .....	261	147	111
Potash .....	24	18	13
Ores and metals .....	<u>158</u>	<u>132</u>	<u>46</u>
Ores, miscellaneous .....	26	5	7

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>EAST COAST UNITED STATES TO WEST COAST</b>			
<b>SOUTH AMERICA—Continued</b>			
Ores and metals—Continued			
Metals.....	132	127	39
Scrap .....	127	111	30
Tin, including tinplate .....	3	2	3
Other and unclassified .....	2	14	6
Other agricultural commodities .....	5	44	10
Oilseeds .....	4	1	5
Sugar .....	.....	43	2
Other and unclassified .....	1	.....	3
Petroleum and products .....	256	466	439
Diesel oil .....	65	183	130
Gasoline .....	75	142	134
Jet fuel .....	.....	5	12
Liquified natural gas .....	52	54	54
Lubricating oil .....	25	37	37
Residual fuel oil .....	29	38	29
Other and unclassified .....	10	7	43
Miscellaneous .....	577	665	670
Bricks and tile .....	3	3	3
Carbon black .....	1	.....	1
Clay, fire, and china .....	13	17	10
Flour, wheat .....	15	44	59
Groceries, miscellaneous .....	2	.....	7
Oil, coconut .....	1	3	4
Oil, vegetable .....	54	66	127
Paper and paper products .....	111	109	99
Resin .....	36	23	33
Rubber, manufactured .....	4	6	7
Tallow .....	33	43	49
Textiles .....	7	9	8
All other and unclassified .....	297	342	263
Total .....	3,760	5,027	5,124
<b>EAST COAST UNITED STATES TO BALBOA, R.P.:</b>			
Canned and refrigerated foods, miscellaneous .....	9	8	8
Grains .....	84	88	93
Corn .....	33	26	35
Wheat .....	51	60	48
Other and unclassified .....	.....	2	10
Machinery and equipment, miscellaneous .....	1	4	4
Ores and metals, miscellaneous .....	7	3	4
Petroleum and products .....	169	186	248
Diesel .....	63	25	.....
Fuel oil, residual .....	98	140	237
Other and unclassified .....	8	21	11
Miscellaneous .....	128	140	144
Oil, vegetable .....	11	14	14
All other and unclassified .....	117	126	130
Total .....	398	429	501
<b>EAST COAST UNITED STATES TO HAWAII:</b>			
Miscellaneous .....	46	29	53
All other and unclassified .....	46	29	53
Total .....	46	29	53
<b>EAST COAST UNITED STATES TO OCEANIA:</b>			
Chemicals and petroleum chemicals .....	519	705	570

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>EAST COAST UNITED STATES TO OCEANIA—Continued</b>			
Chemicals and petroleum chemicals—Continued			
Caustic soda .....	430	560	390
Chemicals, unclassified .....	82	145	172
Petroleum chemicals, miscellaneous .....	7	.....	8
Coal and coke .....	.....	.....	30
Grains.....	<u>48</u>	<u>32</u>	<u>116</u>
Rice.....	.....	.....	1
Soybeans .....	48	29	105
Other and unclassified .....	.....	3	10
Lumber and products .....	<u>2</u>	<u>9</u>	.....
Pulpwood.....	2	9	.....
Machinery and equipment .....	<u>11</u>	<u>13</u>	<u>12</u>
Agricultural machinery and implements .....	1	8	2
Automobiles, trucks, accessories and parts .....	4	1	1
Construction machinery and equipment .....	5	2	6
Electrical machinery and apparatus.....	.....	.....	1
Other and unclassified .....	1	2	2
Manufactures of iron and steel, miscellaneous .....	.....	.....	3
Minerals, miscellaneous.....	<u>10</u>	.....	1
Nitrates, phosphates, and potash .....	<u>743</u>	<u>500</u>	<u>710</u>
Ammonium compounds .....	10	13	8
Fertilizers, unclassified.....	<u>191</u>	<u>122</u>	<u>184</u>
Phosphates.....	<u>510</u>	<u>348</u>	<u>513</u>
Potash .....	32	17	5
Petroleum and products .....	<u>338</u>	<u>265</u>	<u>293</u>
Diesel oil .....	44	.....	.....
Liquefied gas .....	<u>105</u>	<u>66</u>	<u>21</u>
Lubricating oil .....	23	16	8
Residual fuel oil .....	.....	2	144
Petroleum coke .....	<u>156</u>	<u>177</u>	<u>101</u>
Other and unclassified .....	10	4	19
Miscellaneous .....	<u>445</u>	<u>612</u>	<u>574</u>
Clay, fire and china .....	24	.....	11
Glass and glassware .....	.....	.....	2
Oil, vegetable.....	3	4	3
Paper and paper products .....	18	27	35
Resin.....	1	12	19
Rubber, manufactured .....	.....	1	1
All other and unclassified .....	<u>399</u>	<u>568</u>	<u>503</u>
Total.....	<u>2,116</u>	<u>2,136</u>	<u>2,309</u>
<b>EAST COAST UNITED STATES TO ASIA:</b>			
Canned and refrigerated foods .....	<u>111</u>	<u>177</u>	<u>189</u>
Canned foods, miscellaneous .....	3	6	7
Refrigerated foods .....	<u>108</u>	<u>171</u>	<u>182</u>
Fruit .....	28	104	89
Meat .....	1	1	2
Other and unclassified .....	79	66	91
Chemicals and petroleum chemicals .....	<u>1,919</u>	<u>2,148</u>	<u>2,257</u>
Caustic soda .....	41	49	56
Chemicals, unclassified .....	1,340	1,423	1,494
Petroleum chemicals, miscellaneous .....	538	676	707
Coal and coke .....	<u>7,990</u>	<u>7,838</u>	<u>8,729</u>
Grains.....	<u>17,731</u>	<u>20,962</u>	<u>29,326</u>
Barley .....	31	.....	104
Corn .....	7,853	8,878	20,103
Rice.....	1	.....	25

Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued

[Thousands of long tons]

		<i>Fiscal year</i>		
		1985	1984	1983
EAST COAST UNITED STATES TO ASIA—Continued				
Grains—Continued				
Sorghum .....	2,033	1,195	834	
Soybeans .....	5,725	6,148	6,264	
Wheat .....	1,984	4,679	1,955	
Other and unclassified .....	104	62	41	
Lumber and products .....	284	229	281	
Pulpwood.....	279	225	258	
Other and unclassified .....	5	4	23	
Machinery and equipment .....	49	49	67	
Agricultural machinery and implements .....	5	4	6	
Automobiles, trucks, accessories and parts .....	5	10	7	
Construction machinery and equipment .....	14	10	23	
Electrical machinery and apparatus.....	6	9	11	
Other and unclassified .....	19	16	20	
Manufactures of iron and steel .....	41	103	96	
Angles, shapes, and sections .....	1	34	33	
Plates, sheets, and coils .....	9	15	8	
Tubes, pipes, and fittings .....	.....	3	21	
Wires, bars, and rods .....	.....	.....	4	
Other and unclassified .....	31	51	30	
Minerals, miscellaneous.....	4	.....	1	
Nitrates, phosphates, and potash .....	5,193	5,207	4,961	
Ammonium compounds .....	122	93	47	
Fertilizers, unclassified.....	249	329	401	
Phosphates.....	4,810	4,775	4,477	
Potash .....	12	10	36	
Ores and metals .....	2,149	1,988	1,810	
Ores, miscellaneous .....	64	7	25	
Metals.....	2,085	1,981	1,785	
Aluminum .....	1	26	26	
Iron.....	24	.....	69	
Scrap .....	2,048	1,946	1,654	
Tin, including tinplate .....	1	1	3	
Other and unclassified .....	11	8	33	
Other agricultural commodities .....	6	24	59	
Beans, edible .....	2	22	34	
Cotton, raw .....	4	.....	23	
Other and unclassified .....	.....	2	2	
Petroleum and products .....	821	598	1,234	
Gasoline .....	3	4	18	
Liquefied gas .....	130	178	360	
Lubricating oil .....	71	103	58	
Petroleum coke .....	447	260	590	
Diesel .....	.....	34	24	
Residual fuel oil .....	50	.....	145	
Jet fuel .....	28	.....	29	
Other and unclassified .....	92	19	10	
Miscellaneous .....	4,678	4,689	4,039	
Bricks and tile .....	1	.....	1	
Carbon black.....	24	.....	.....	
Clay, fire and china .....	364	320	323	
Fibers, plant .....	6	21	15	
Flour, wheat .....	4	50	103	
Groceries, miscellaneous .....	16	12	7	
Marble and stone .....	9	16	11	
Oil, vegetable.....	70	67	47	
Paper and paper products .....	184	164	243	

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>EAST COAST UNITED STATES TO ASIA—Continued</b>			
Miscellaneous—Continued			
Resin.....	181	80	106
Rubber, manufactured.....	7	27	5
Tallow.....	2	2	6
Textiles.....	50	27	17
Tobacco and manufactures.....	4	7	45
All other and unclassified.....	<u>3,756</u>	<u>3,896</u>	<u>3,110</u>
Total.....	<u>40,976</u>	<u>44,012</u>	<u>53,049</u>
<b>EAST COAST CANADA TO WEST COAST UNITED STATES:</b>			
Miscellaneous .....	19	46	11
Pulpwood.....	.....	1	2
All other and unclassified.....	<u>19</u>	<u>45</u>	<u>9</u>
Total.....	<u>19</u>	<u>46</u>	<u>11</u>
<b>EAST COAST CANADA TO WEST COAST CENTRAL AMERICA:</b>			
Manufactures of iron and steel, miscellaneous.....	24	.....	1
Miscellaneous .....	<u>20</u>	<u>36</u>	<u>57</u>
Paper and paper products.....	11	12	10
All other and unclassified.....	<u>9</u>	<u>24</u>	<u>47</u>
Total.....	<u>44</u>	<u>36</u>	<u>58</u>
<b>EAST COAST CANADA TO WEST COAST SOUTH AMERICA:</b>			
Grains.....	.....	5	8
Barley .....	.....	5	5
Other and unclassified.....	.....	.....	3
Machinery and equipment, miscellaneous.....	.....	5	5
Manufactures of iron and steel, miscellaneous.....	.....	4	17
Minerals, miscellaneous.....	<u>9</u>	<u>12</u>	<u>13</u>
Asbestos .....	9	12	13
Ores and metals .....	<u>1</u>	<u>2</u>	<u>1</u>
Metals.....	<u>1</u>	<u>2</u>	<u>1</u>
Tin, including tinplate .....	1	.....	.....
Other and unclassified.....	.....	2	1
Miscellaneous .....	<u>79</u>	<u>107</u>	<u>89</u>
Paper and paper products.....	33	48	45
All other and unclassified.....	<u>46</u>	<u>59</u>	<u>44</u>
Total.....	<u>89</u>	<u>135</u>	<u>133</u>
<b>EAST COAST CANADA TO OCEANIA:</b>			
Miscellaneous .....	<u>109</u>	<u>129</u>	<u>100</u>
Paper and paper products.....	.....	10	.....
All other and unclassified.....	<u>109</u>	<u>119</u>	<u>100</u>
Total.....	<u>109</u>	<u>129</u>	<u>100</u>
<b>EAST COAST CANADA TO ASIA:</b>			
Canned and refrigerated foods.....	51	43	49
Refrigerated foods .....	<u>51</u>	<u>43</u>	<u>49</u>
Fish.....	23	25	31
Other and unclassified.....	28	18	18
Chemicals and petroleum chemicals, miscellaneous.....	<u>5</u>	.....	4
Grains.....	<u>107</u>	<u>176</u>	<u>88</u>
Soybeans .....	79	176	45
Wheat .....	.....	.....	43
Other and unclassified.....	28	.....	.....
Lumber and products .....	<u>185</u>	<u>228</u>	<u>146</u>
Pulpwood.....	185	226	144
Other and unclassified .....	.....	2	2

Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>EAST COAST CANADA TO ASIA—Continued</b>			
Machinery and equipment, miscellaneous . . . . .	2	1	.....
Manufactures of iron and steel, miscellaneous . . . . .	25	42	58
Ores and metals . . . . .	<u>355</u>	<u>335</u>	<u>550</u>
Ores, miscellaneous . . . . .	48	117	108
Metals . . . . .	<u>307</u>	<u>218</u>	<u>442</u>
Aluminum . . . . .	45	40	142
Copper . . . . .	59	30	24
Iron . . . . .	48	9	87
Scrap . . . . .	124	118	160
Other and unclassified . . . . .	31	51	53
Miscellaneous . . . . .	<u>796</u>	<u>650</u>	<u>674</u>
Paper and paper products . . . . .	193	70	105
Resin . . . . .	59	16	26
Slag . . . . .	.....	.....	15
All other and unclassified . . . . .	<u>544</u>	<u>564</u>	<u>528</u>
Total . . . . .	<u>1,526</u>	<u>1,475</u>	<u>1,569</u>
<b>EAST COAST CENTRAL AMERICA TO WEST COAST UNITED STATES:</b>			
Nitrates, phosphates, and potash . . . . .	.....	14	28
Ammonium compounds . . . . .	.....	14	15
Fertilizers, unclassified . . . . .	.....	.....	13
Miscellaneous . . . . .	.....	14	19
All other and unclassified . . . . .	.....	14	19
Total . . . . .	.....	28	47
<b>EAST COAST CENTRAL AMERICA TO WEST COAST CENTRAL AMERICA:</b>			
Nitrates, phosphates, and potash . . . . .	536	132	102
Ammonium compounds . . . . .	45	25	.....
Phosphates . . . . .	86	.....	.....
Fertilizers . . . . .	405	107	102
Petroleum and products . . . . .	<u>3,022</u>	<u>4,092</u>	<u>3,247</u>
Asphalt . . . . .	49	17	.....
Crude oil . . . . .	745	931	1,378
Diesel oil . . . . .	111	79	139
Liquefied gas . . . . .	327	312	198
Fuel oil, residual . . . . .	1,734	2,337	1,396
Gasoline . . . . .	17	.....	.....
Other and unclassified . . . . .	39	416	136
Miscellaneous . . . . .	24	16	3
All other and unclassified . . . . .	24	16	3
Total . . . . .	<u>3,582</u>	<u>4,240</u>	<u>3,352</u>
<b>EAST COAST CENTRAL AMERICA TO WEST COAST SOUTH AMERICA:</b>			
Nitrates, phosphates, and potash . . . . .	2	26	20
Fertilizers, miscellaneous . . . . .	2	26	20
Other agricultural commodities . . . . .	.....	5	.....
Sugar . . . . .	.....	5	.....
Petroleum and products . . . . .	<u>138</u>	<u>70</u>	<u>5</u>
Other and unclassified . . . . .	<u>138</u>	<u>70</u>	<u>5</u>
Miscellaneous . . . . .	46	106	39
All other and unclassified . . . . .	46	106	39
Total . . . . .	<u>186</u>	<u>207</u>	<u>64</u>

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>EAST COAST CENTRAL AMERICA TO BALBOA, R.P.:</b>			
Petroleum and products .....	104	65	56
Diesel oil .....	30	4	33
Fuel, oil, residual .....	73	61	23
Other and unclassified .....	1	.....	.....
Total .....	<u>104</u>	<u>65</u>	<u>56</u>
<b>EAST COAST CENTRAL AMERICA TO OCEANIA:</b>			
Petroleum products .....	.....	46	.....
Miscellaneous .....	12	11	4
All other and unclassified .....	12	11	4
Total .....	<u>12</u>	<u>57</u>	<u>4</u>
<b>EAST COAST CENTRAL AMERICA TO ASIA:</b>			
Chemicals and petroleum chemicals .....	19	13	10
Nitrates, phosphates, and potash .....	18	.....	10
Fertilizers, miscellaneous .....	18	.....	10
Ores and metals, miscellaneous .....	90	43	61
Other agricultural commodities .....	2	2	11
Coffee .....	2	2	11
Petroleum and products .....	.....	.....	56
Crude petroleum .....	.....	.....	56
Miscellaneous .....	109	73	76
All other and unclassified .....	109	73	76
Total .....	<u>238</u>	<u>131</u>	<u>224</u>
<b>EAST COAST SOUTH AMERICA TO WEST COAST UNITED STATES:</b>			
Canned and refrigerated foods, miscellaneous .....	9	16	2
Chemicals and petroleum chemicals .....	77	74	90
Lumber and products, miscellaneous .....	26	31	24
Manufactures of iron and steel, miscellaneous .....	648	171	181
Ores and metals .....	76	30	44
Ores .....	74	27	44
Alumina/bauxite .....	64	27	24
Other and unclassified .....	10	.....	20
Metals, miscellaneous .....	2	3	.....
Other agricultural commodities .....	9	6	11
Cocoa and cacao beans .....	1	.....	1
Coffee .....	8	6	5
Sugar, raw .....	.....	.....	5
Petroleum and products .....	95	450	480
Asphalt .....	.....	107	56
Crude oil .....	.....	136	258
Diesel oil .....	22	.....	29
Fuel oil, residual .....	.....	62	50
Gasoline .....	28	89	87
Jet fuel .....	42	32	.....
Liquefied gas .....	.....	24	.....
Petroleum products, miscellaneous .....	1	.....	.....
Miscellaneous .....	140	97	38
Paper and products .....	9	10	23
All other and unclassified .....	131	87	15
Total .....	<u>1,080</u>	<u>875</u>	<u>870</u>

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>EAST COAST SOUTH AMERICA TO WEST COAST CANADA:</b>			
Manufactures of iron and steel .....	26	43	33
Miscellaneous .....	18	16	.....
All other and unclassified .....	18	16	.....
Total .....	<u>44</u>	<u>59</u>	<u>33</u>
<b>EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL AMERICA:</b>			
Coal .....	77	103	79
Grains .....	<u>49</u>	<u>205</u>	.....
Sorghum .....	21	.....	.....
Soybeans .....	28	197	.....
Other and unclassified .....	.....	8	.....
Nitrates, phosphates, and potash .....	17	23	55
Fertilizers, miscellaneous .....	17	23	55
Petroleum and products .....	<u>687</u>	<u>594</u>	<u>669</u>
Crude oil .....	659	594	667
Liquefied gas .....	.....	.....	2
Other and unclassified .....	28	.....	.....
Other agricultural commodities .....	.....	12	52
Sugar .....	.....	12	52
Miscellaneous .....	<u>30</u>	<u>48</u>	<u>7</u>
All other and unclassified .....	<u>30</u>	<u>48</u>	<u>7</u>
Total .....	<u><u>860</u></u>	<u><u>985</u></u>	<u><u>862</u></u>
<b>EAST COAST SOUTH AMERICA TO WEST COAST SOUTH AMERICA:</b>			
Chemicals and petroleum chemicals, miscellaneous .....	8	18	12
Grains .....	<u>1</u>	<u>7</u>	<u>2</u>
Oats .....	1	1	2
Grains, miscellaneous .....	.....	6	.....
Manufactures of iron and steel .....	<u>170</u>	<u>87</u>	<u>34</u>
Minerals, miscellaneous .....	<u>6</u>	.....	.....
Salt .....	6	.....	.....
Nitrates, phosphates, and potash .....	<u>91</u>	<u>57</u>	<u>62</u>
Fertilizers, unclassified .....	<u>91</u>	<u>57</u>	<u>62</u>
Ores and metals .....	<u>13</u>	<u>28</u>	<u>26</u>
Ore, alumina/bauxite .....	6	18	14
Metals, miscellaneous .....	7	10	12
Other agricultural commodities .....	.....	.....	18
Sugar .....	.....	.....	13
Other and unclassified .....	.....	.....	5
Petroleum and products .....	<u>1,582</u>	<u>1,568</u>	<u>1,654</u>
Crude oil .....	1,133	1,085	1,116
Diesel oil .....	77	102	168
Fuel oil, residual .....	32	26	112
Gasoline .....	271	224	180
Jet fuel .....	9	25	18
Liquefied gas .....	.....	.....	4
Lubricating oil .....	42	23	44
Other and unclassified .....	18	83	12
Miscellaneous .....	<u>45</u>	<u>64</u>	<u>48</u>
All other and unclassified .....	<u>45</u>	<u>64</u>	<u>48</u>
Total .....	<u><u>1,916</u></u>	<u><u>1,829</u></u>	<u><u>1,856</u></u>
<b>EAST COAST SOUTH AMERICA TO BALBOA, R.P.:</b>			
Petroleum and products .....	<u>71</u>	<u>42</u>	<u>74</u>
Diesel oil .....	<u>65</u>	<u>20</u>	<u>19</u>

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>EAST COAST SOUTH AMERICA TO BALBOA, R.P.—Continued</b>			
Petroleum and products—Continued			
Gasoline .....	1	22	8
Fuel oil, residual.....	5	.....	47
Miscellaneous .....	7	5	4
All other and unclassified .....	7	5	4
Total.....	<u>78</u>	<u>47</u>	<u>78</u>
<b>EAST COAST SOUTH AMERICA TO HAWAII:</b>			
Petroleum and products .....	60	59	.....
Jet fuel .....	60	26	.....
Kerosene .....	.....	33	.....
Total.....	<u>60</u>	<u>59</u>	.....
<b>EAST COAST SOUTH AMERICA TO OCEANIA:</b>			
Petroleum and products .....	29	30	25
Miscellaneous .....	3	3	47
All other and unclassified .....	3	3	47
Total.....	<u>32</u>	<u>33</u>	<u>72</u>
<b>EAST COAST SOUTH AMERICA TO ASIA:</b>			
Canned and refrigerated foods, miscellaneous.....	15	22	19
Chemicals and petroleum chemicals, miscellaneous .....	70	47	38
Grains, miscellaneous.....	53	.....	.....
Lumber and products, miscellaneous .....	42	32	29
Manufactures of iron and steel, miscellaneous .....	357	88	143
Nitrates, phosphates, and potash.....	.....	.....	2
Fertilizers, miscellaneous.....	.....	.....	2
Ores and metals .....	364	290	323
Ores .....	146	121	103
Alumina/bauxite .....	14	49	16
Iron .....	64	.....	10
Manganese.....	66	37	74
Other and unclassified .....	2	35	3
Metals, miscellaneous .....	218	169	220
Other agricultural commodities .....	5	.....	4
Cotton, raw .....	3	.....	2
Other and unclassified .....	2	.....	2
Petroleum and products .....	632	1,031	1,093
Crude oil .....	508	892	846
Diesel oil .....	29	.....	61
Gasoline .....	34	.....	53
Jet fuel .....	61	92	30
Liquefied gas .....	.....	.....	8
Residual fuel oil .....	.....	.....	48
Other and unclassified .....	.....	47	47
Miscellaneous .....	29	27	32
Paper and products .....	.....	16	.....
All other and unclassified .....	29	11	32
Total.....	<u>1,567</u>	<u>1,537</u>	<u>1,683</u>
<b>WEST INDIES TO WEST COAST UNITED STATES:</b>			
Chemicals and petroleum chemicals, miscellaneous .....	.....	17	.....
Manufactures of iron and steel .....	30	30	33
Minerals, miscellaneous .....	38	24	24
Salt .....	38	24	24
Nitrates, phosphates and potash .....	63	82	.....
Ores and metals .....	57	253	251
Ore, alumina/bauxite.....	57	184	251

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>WEST INDIES TO WEST COAST UNITED STATES—Continued</b>			
Ores and metals—Continued			
Metals, miscellaneous	69	.....	.....
Petroleum and products	166	233	487
Asphalt	27	31	.....
Liquefied gas	17	.....	.....
Fuel oil, residual	60	287	.....
Gasoline	43	.....	58
Jet fuel	106	60	64
Lubricating oil	17	69	47
Miscellaneous	46	.....	.....
All other and unclassified	16	.....	.....
Total	<u>354</u>	<u>655</u>	<u>795</u>
<b>WEST INDIES TO WEST COAST CENTRAL AMERICA:</b>			
Chemicals and petroleum chemicals, miscellaneous	1	2	1
Other agricultural commodities	3	18	11
Sugar	3	18	11
Petroleum and products	135	187	265
Crude oil	.....	.....	34
Diesel oil	44	81	97
Fuel oil, residual	8	.....	7
Gasoline	54	49	78
Kerosene	15	16	17
Lubricating oil	5	6	4
Other and unclassified	9	36	28
Miscellaneous	71	71	45
Cement	15	4	6
All other and unclassified	56	67	39
Total	<u>210</u>	<u>278</u>	<u>322</u>
<b>WEST INDIES TO WEST COAST SOUTH AMERICA:</b>			
Chemicals and petroleum chemicals, miscellaneous	.....	.....	3
Nitrates, phosphates and potash	41	.....	.....
Other agricultural commodities	.....	53	47
Minerals, miscellaneous	2	6	9
Sulfur	2	6	9
Ores and metals	13	12	.....
Ores, miscellaneous	8	7	.....
Metals, miscellaneous	5	5	.....
Petroleum and products	567	733	975
Crude oil	.....	.....	45
Diesel oil	232	357	363
Fuel oil, residual	76	91	53
Gasoline	138	147	379
Jet fuel	16	5	28
Kerosene	7	39	26
Liquefied gas	.....	.....	7
Lubricating oil	98	79	56
Other and unclassified	.....	15	18
Miscellaneous	7	16	27
All other and unclassified	7	16	27
Total	<u>630</u>	<u>820</u>	<u>1,061</u>
<b>WEST INDIES TO BALBOA, R.P.:</b>			
Petroleum and products	64	97	297
Diesel oil	55	28	110

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>WEST INDIES TO BALBOA, R.P.—Continued</b>			
Petroleum and products—Continued			
Fuel oil, residual.....	3	5	117
Gasoline .....	1	22	65
Other and unclassified .....	5	42	5
Total.....	<u>64</u>	<u>97</u>	<u>297</u>
<b>WEST INDIES TO HAWAII:</b>			
Petroleum and products .....	115	268	323
Diesel oil .....	.....	.....	16
Jet fuel .....	61	268	297
Residual fuel oil .....	54	.....	10
Total .....	<u>115</u>	<u>268</u>	<u>323</u>
<b>WEST INDIES TO OCEANIA:</b>			
Minerals, miscellaneous .....	26	38	44
Salt .....	26	38	44
Other agricultural commodities .....	.....	41	.....
Sugar .....	.....	41	.....
Petroleum and products .....	57	180	99
Diesel oil .....	.....	46	16
Gasoline .....	29	78	48
Jet fuel .....	.....	34	28
Lubricating oil .....	5	4	.....
Other and unclassified .....	23	18	7
Miscellaneous .....	.....	3	4
All other and unclassified .....	.....	3	4
Total .....	<u>83</u>	<u>262</u>	<u>147</u>
<b>WEST INDIES TO ASIA:</b>			
Canned and refrigerated foods .....	14	25	14
Fish, refrigerated .....	10	19	7
Other and unclassified .....	4	6	7
Chemicals and petroleum chemicals, miscellaneous .....	71	38	49
Ores and metals .....	46	36	46
Ores .....	46	31	39
Alumina/bauxite .....	43	26	39
Other and unclassified .....	3	5	.....
Metals, miscellaneous .....	.....	5	7
Other agricultural commodities .....	1,264	1,162	1,394
Sugar .....	1,264	1,161	1,393
Other and unclassified .....	.....	1	1
Petroleum and products .....	54	70	439
Crude oil .....	10	.....	.....
Liquefied gas .....	.....	.....	86
Gasoline .....	.....	.....	78
Jet fuel .....	.....	.....	71
Fuel oil, residual .....	.....	.....	138
Lubricating oil .....	44	38	66
Petroleum products, miscellaneous .....	.....	32	.....
Miscellaneous .....	164	22	34
All other and unclassified .....	164	22	34
Total .....	<u>1,613</u>	<u>1,353</u>	<u>1,976</u>
<b>EUROPE TO WEST COAST UNITED STATES:</b>			
Canned and refrigerated foods, miscellaneous .....	64	46	39
Chemicals and petroleum chemicals .....	99	23	24
Caustic soda .....	10	5	2

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>EUROPE TO WEST COAST UNITED STATES—Continued</b>			
Chemicals and petroleum chemicals—Continued			
Chemicals, unclassified .....	89	18	22
Lumber and products, miscellaneous .....	21	20	17
Machinery and equipment .....	<u>246</u>	<u>193</u>	<u>150</u>
Automobiles, trucks, accessories and parts .....	226	185	138
Construction machinery and equipment .....	8	5	4
Electrical machinery and apparatus .....	5	1	5
Other and unclassified .....	7	2	3
Manufactures of iron and steel .....	<u>729</u>	<u>780</u>	<u>610</u>
Angles, shapes, and sections .....	69	53	34
Plates, sheets, and coils .....	389	469	379
Tubes, pipes, and fittings .....	48	33	14
Wires, bars, and rods .....	63	108	41
Other and unclassified .....	160	117	142
Nitrates, phosphates, and potash .....	<u>358</u>	<u>346</u>	<u>244</u>
Ammonium compounds .....	119	100	63
Fertilizers, unclassified .....	210	200	159
Nitrate of soda .....	28	42	22
Other and unclassified .....	1	4	.....
Ores and metals .....	<u>82</u>	<u>51</u>	<u>92</u>
Ores, miscellaneous .....	56	12	20
Metals .....	<u>26</u>	<u>39</u>	<u>72</u>
Iron .....	20	29	63
Other and unclassified .....	6	10	9
Petroleum and products .....	<u>252</u>	<u>53</u>	<u>23</u>
Gasoline .....	248	27	23
Other and unclassified .....	4	26	.....
Miscellaneous .....	<u>1,623</u>	<u>1,428</u>	<u>953</u>
Bricks and tile .....	25	10	8
Cement .....	207	92	35
Glass and glassware .....	1	1	2
Liquors and wines .....	6	6	8
Marble and stone .....	7	9	2
Paper and paper products .....	181	201	57
Rubber, manufactured .....	1	1	.....
All other and unclassified .....	<u>1,195</u>	<u>1,108</u>	<u>841</u>
Total .....	<u>3,474</u>	<u>2,940</u>	<u>2,152</u>
<b>EUROPE TO WEST COAST CANADA:</b>			
Canned and refrigerated foods, miscellaneous .....	6	7	5
Machinery and equipment .....	<u>16</u>	<u>13</u>	<u>14</u>
Automobiles, trucks, accessories and parts .....	15	6	5
Other and unclassified .....	1	7	9
Manufactures of iron and steel .....	<u>193</u>	<u>-137</u>	<u>68</u>
Angles, shapes, and sections .....	15	22	7
Plates, sheets, and coils .....	84	43	27
Tubes, pipes, and fittings .....	25	16	2
Wire, bars, and rods .....	26	26	6
Other and unclassified .....	43	30	26
Nitrates, phosphates, and potash .....	8	7	11
Fertilizers, unclassified .....	8	7	.....
Ores and metals .....	<u>11</u>	<u>89</u>	.....
Miscellaneous .....	<u>166</u>	<u>194</u>	<u>164</u>
Bricks and tile .....	3	1	.....
Liquors and wines .....	2	1	3
All other and unclassified .....	<u>161</u>	<u>192</u>	<u>161</u>
Total .....	<u>400</u>	<u>447</u>	<u>262</u>

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>EUROPE TO WEST COAST CENTRAL AMERICA:</b>			
Canned and refrigerated foods, miscellaneous.....	17	4	1
Chemicals and petroleum chemicals, miscellaneous.....	19	13	38
Grains.....	128	53	33
Corn .....	5	4	1
Rice.....	55	14	5
Wheat .....	51	30	25
Other and unclassified .....	17	5	2
Machinery and equipment .....	55	41	24
Automobiles, trucks, accessories and parts .....	22	9	10
Other and unclassified .....	33	32	14
Manufactures of iron and steel .....	90	46	64
Angles, shapes, and sections .....	24	11	11
Plates, sheets, and coils .....	30	15	21
Tubes, pipes, and fittings .....	4	2	.....
Wire, bars, and rods .....	23	14	15
Other and unclassified .....	9	4	17
Nitrates, phosphates, and potash.....	327	271	267
Ammonium compounds .....	47	20	35
Fertilizers, unclassified.....	262	240	204
Potash .....	18	11	28
Ores and metals .....	28	10	9
Metals, miscellaneous .....	28	10	9
Petroleum and products .....	415	239	3
Crude petroleum .....	342	201	.....
Other and unclassified .....	73	38	3
Other agricultural commodities .....	.....	25	101
Sugar .....	.....	25	101
Miscellaneous .....	143	139	125
Cement .....	1	1	.....
Glass and glassware .....	1	.....	1
Paper and paper products.....	17	14	4
All other and unclassified .....	124	124	120
Total .....	1,232	841	665
<b>EUROPE TO WEST COAST SOUTH AMERICA:</b>			
Canned and refrigerated foods.....	26	26	28
Canned foods .....	17	21	14
Milk .....	.....	16	11
Other and unclassified .....	17	5	3
Refrigerated foods .....	9	5	14
Dairy products .....	3	3	3
Other and unclassified .....	6	2	11
Chemicals and petroleum chemicals .....	59	63	58
Caustic soda .....	10	4	4
Chemicals, unclassified .....	48	56	51
Petroleum chemicals, miscellaneous .....	1	3	3
Coal and coke .....	.....	13	8
Grains.....	41	47	83
Barley .....	5	5	1
Oats .....	4	3	16
Wheat .....	17	16	19
Rice .....	.....	5	20
Other and unclassified .....	15	18	27
Lumber and products .....	.....	3	1
Pulpwood.....	.....	1	.....
Other and unclassified .....	.....	2	1

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>EUROPE TO WEST COAST SOUTH AMERICA—Continued</b>			
Machinery and equipment .....	71	93	109
Agricultural machinery and implements .....	13	17	20
Automobiles, trucks, accessories and parts .....	19	22	26
Construction machinery and equipment .....	19	27	35
Electrical machinery and apparatus .....	12	15	14
Other and unclassified .....	8	12	14
Manufactures of iron and steel .....	149	115	121
Angles, shapes, and sections .....	31	16	16
Plates, sheets, and coils .....	60	48	46
Tubes, pipes, and fittings .....	11	13	13
Wire, bars, and rods .....	36	19	14
Other and unclassified .....	11	19	32
Minerals, miscellaneous .....	43	22	37
Soda and sodium compounds .....	39	22	36
Other and unclassified .....	4	1	1
Nitrates, phosphates, and potash .....	116	82	111
Ammonium compounds .....	26	16	24
Fertilizers, unclassified .....	57	48	47
Phosphates .....	7	7	20
Potash .....	25	10	19
Other and unclassified .....	1	1	1
Ores and metals .....	132	21	16
Ores, miscellaneous .....	120	4	1
Metals .....	12	17	15
Iron .....	1	1	3
Tin, including tinplate .....	1	8	5
Other and unclassified .....	10	8	7
Other agricultural commodities .....	10	52	75
Sugar .....	2	52	69
Other and unclassified .....	8	6	6
Petroleum and products .....	119	64	131
Diesel oil .....	76	42	53
Gasoline .....	.....	4	23
Liquefied gas .....	.....	.....	27
Residual fuel oil .....	37	10	20
Other and unclassified .....	6	8	8
Miscellaneous .....	613	478	414
Ammunition and explosives .....	1	1	2
Bricks and tile .....	.....	5	6
Cement .....	.....	3	2
Flour, wheat .....	23	41	29
Glass and glassware .....	6	6	6
Groceries, miscellaneous .....	7	3	9
Liquors and wines .....	.....	2	7
Oil, vegetable .....	3	1	.....
Paper and paper products .....	49	33	39
Resin .....	6	6	8
Rubber, manufactured .....	1	3	5
Textiles .....	3	7	5
Wax, paraffin .....	3	7	4
All other and unclassified .....	511	360	292
Total .....	<u>1,379</u>	<u>1,079</u>	<u>1,192</u>
<b>EUROPE TO OCEANIA:</b>			
Canned and refrigerated foods, miscellaneous .....	13	15	14
Chemicals and petroleum chemicals .....	139	164	111
Caustic soda .....	33	45	30

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>EUROPE TO OCEANIA—Continued</b>			
Chemicals and petroleum chemicals—Continued			
Chemicals, unclassified .....	96	108	67
Petroleum chemicals, miscellaneous .....	10	11	14
Lumber and products, miscellaneous .....	3	28	4
Machinery and equipment .....	<u>22</u>	<u>24</u>	<u>31</u>
Agricultural machinery and implements .....	1	1	1
Automobiles, trucks, accessories and parts .....	16	14	11
Construction machinery and equipment .....	2	3	12
Electrical machinery and apparatus .....	1	2	3
Other and unclassified .....	2	4	4
Manufactures of iron and steel .....	<u>22</u>	<u>28</u>	<u>29</u>
Angles, shapes, and sections .....		4	5
Plates, sheets, and coils .....	7	7	7
Tubes, pipes, and fittings .....	5	7	3
Wire, bars, and rods .....	6	6	6
Other and unclassified .....	4	4	8
Minerals, miscellaneous .....	<u>9</u>	<u>10</u>	<u>7</u>
Salt .....	6	9	6
Soda and sodium compounds .....	3	1	1
Nitrates, phosphates, and potash .....	<u>82</u>	<u>69</u>	<u>51</u>
Ammonium compounds .....	26	13	1
Fertilizers, unclassified .....	33	19	32
Phosphates .....	1	.....	17
Potash .....	22	37	1
Ores and metals, miscellaneous .....	2	2	.....
Other agricultural commodities, miscellaneous .....	4	6	9
Petroleum and products .....	<u>19</u>	<u>60</u>	<u>5</u>
Lubricating oil .....	9	7	2
Other and unclassified .....	10	53	3
Miscellaneous .....	<u>465</u>	<u>485</u>	<u>505</u>
Bricks and tile .....	2	2	1
Cement .....	13	18	16
Flour, wheat .....	8	12	9
Glass and glassware .....	2	2	2
Groceries, miscellaneous .....	1	4	2
Liquors and wines .....	2	2	9
Oil, vegetable .....	16	26	16
Paper and paper products .....	5	9	6
Rubber, manufactured .....	1	.....	1
Textiles .....	1	.....	1
All other and unclassified .....	<u>414</u>	<u>410</u>	<u>442</u>
Total .....	<u>780</u>	<u>891</u>	<u>766</u>
<b>EUROPE TO ASIA:</b>			
Canned and refrigerated foods .....	26	14	13
Refrigerated foods, miscellaneous .....	26	14	13
Chemicals and petroleum chemicals .....	<u>218</u>	<u>251</u>	<u>283</u>
Caustic soda .....	21	19	13
Chemicals, unclassified .....	161	219	234
Petroleum chemicals, miscellaneous .....	36	13	36
Lumber and products, miscellaneous .....		2	.....
Machinery and equipment .....	<u>10</u>	<u>7</u>	<u>9</u>
Automobiles, trucks, accessories and parts .....	10	7	9
Manufactures of iron and steel .....	56	.....	.....
Ores and metals, miscellaneous .....	14	48	.....
Petroleum and products, miscellaneous .....	34	54	53
Miscellaneous .....	<u>69</u>	<u>67</u>	<u>104</u>

**Table 10.—Important Commodity Shipments Over Principal Trade Routes  
Atlantic to Pacific—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>EUROPE TO ASIA—Continued</b>			
Miscellaneous—Continued			
Paper and paper products.....	2	.....	17
All other and unclassified .....	67	67	87
Total.....	<u>427</u>	<u>443</u>	<u>462</u>
<b>AFRICA TO WEST COAST UNITED STATES:</b>			
Canned and refrigerated foods, miscellaneous.....	3	.....	.....
Manufactures of iron and steel, miscellaneous.....	82	88	76
Ores and metals .....	35	40	22
Metals.....	14	14	11
Other and unclassified .....	14	14	11
Ores .....	21	26	11
Manganese ore .....	16	21	3
Lead ore.....	.....	.....	8
Other and unclassified .....	5	5	.....
Petroleum and products .....	37	143	177
Crude oil .....	.....	59	147
Gasoline.....	37	28	30
Other and unclassified .....	.....	56	.....
Miscellaneous .....	16	21	6
All other and unclassified .....	16	21	6
Total.....	<u>173</u>	<u>292</u>	<u>281</u>
<b>AFRICA TO WEST COAST CANADA:</b>			
Manufactures of iron and steel, miscellaneous .....	4	.....	4
Miscellaneous .....	39	4	7
Phosphates.....	35	.....	.....
All other and unclassified .....	4	4	7
Total.....	<u>43</u>	<u>4</u>	<u>11</u>
<b>AFRICA TO WEST COAST SOUTH AMERICA:</b>			
Manufactures of iron and steel, miscellaneous .....	.....	.....	6
Miscellaneous .....	8	3	5
All other and unclassified .....	8	3	5
Total.....	<u>8</u>	<u>3</u>	<u>11</u>
<b>AFRICA TO ASIA.</b>			
Canned and refrigerated foods.....	38	68	61
Fish, refrigerated .....	38	68	59
Other and unclassified .....	.....	.....	2
Total.....	<u>38</u>	<u>68</u>	<u>61</u>
<b>ASIA (MIDDLE EAST) TO WEST COAST UNITED STATES:</b>			
Miscellaneous .....	128	61	61
Chemicals, miscellaneous .....	1	.....	39
Soybeans .....	54	.....	.....
Gasoline .....	26	.....	.....
Liquefied gas .....	.....	28	.....
All other and unclassified .....	47	33	22
Total.....	<u>128</u>	<u>61</u>	<u>61</u>

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>WEST COAST UNITED STATES TO EAST COAST</b>			
UNITED STATES:			
Canned and refrigerated foods, miscellaneous.....	.....	1	8
Chemicals and petroleum chemicals .....	94	93	94
Chemicals, unclassified .....	85	90	78
Petroleum chemicals, miscellaneous .....	9	3	16
Lumber and products .....	.....	59	34
Minerals, miscellaneous .....	72	105	87
Soda and sodium compounds .....	72	68	87
Salt .....	.....	37	.....
Petroleum and products .....	2,271	2,553	6,663
Crude oil .....	1,766	1,816	5,923
Diesel oil .....	91	327	190
Fuel oil, residual .....	79	151	63
Gasoline .....	144	117	115
Lubricating oil .....	142	96	102
Other and unclassified .....	49	46	270
Miscellaneous .....	513	428	279
All other and unclassified .....	513	428	279
Total .....	<u>2,950</u>	<u>3,239</u>	<u>7,165</u>
<b>WEST COAST UNITED STATES TO EAST COAST CANADA:</b>			
Petroleum and products .....	269	327	26
Residual fuel oil .....	36	59	.....
Diesel oil .....	80	193	.....
Gasoline .....	.....	34	26
Petroleum coke .....	153	41	.....
Miscellaneous .....	2	28	8
All other and unclassified .....	2	28	8
Total .....	<u>271</u>	<u>355</u>	<u>34</u>
<b>WEST COAST UNITED STATES TO EAST COAST SOUTH AMERICA:</b>			
Canned and refrigerated foods .....	3	8	15
Canned foods, miscellaneous .....	3	5	5
Refrigerated foods .....	.....	3	10
Fruit, excluding bananas .....	.....	3	9
Other and unclassified .....	.....	.....	1
Chemicals and petroleum chemicals, miscellaneous .....	.....	8	3
Coke, coal type .....	.....	27	.....
Grains .....	.....	60	21
Wheat .....	.....	58	18
Other and unclassified .....	.....	2	3
Lumber and products .....	24	31	35
Pulpwood .....	24	31	30
Other and unclassified .....	.....	.....	5
Machinery and equipment, miscellaneous .....	.....	3	5
Manufactures of iron and steel, miscellaneous .....	.....	1	2
Minerals, miscellaneous .....	40	45	83
Borax .....	2	3	5
Salt .....	.....	6	20
Soda and sodium compounds .....	38	28	58
Infusorial earth .....	.....	8	.....
Nitrates, phosphates, and potash .....	.....	1	7
Fertilizers, unclassified .....	.....	.....	1
Potash .....	.....	.....	6
Ammonium compounds .....	.....	1	.....
Ores and metals .....	.....	1	1
Metals, miscellaneous .....	.....	1	1

Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>WEST COAST UNITED STATES TO EAST COAST SOUTH AMERICA—Continued</b>			
Other agricultural commodities .....	10	15	9
Beans, edible .....	6	11	2
Peas, dry .....	4	4	7
Petroleum and products .....	15	.....	1
Petroleum coke .....	15	.....	.....
Other and unclassified .....	.....	.....	1
Miscellaneous .....	62	80	46
Clay, fire and china .....	5	8	5
Flour, wheat .....	.....	1	.....
Oil, vegetable .....	3	6	.....
Paper and paper products .....	12	17	4
All other and unclassified .....	42	48	37
Total .....	<u>154</u>	<u>279</u>	<u>228</u>
<b>WEST COAST UNITED STATES TO WEST INDIES:</b>			
Canned and refrigerated foods, miscellaneous .....	3	1	5
Grains .....	67	95	77
Rice .....	67	95	77
Petroleum and products .....	883	1,091	1,316
Crude oil .....	.....	.....	287
Diesel oil .....	277	89	100
Gasoline .....	.....	.....	28
Residual fuel oil .....	594	918	800
Other and unclassified .....	12	84	101
Miscellaneous .....	4	7	4
All other and unclassified .....	4	7	4
Total .....	<u>957</u>	<u>1,194</u>	<u>1,402</u>
<b>WEST COAST UNITED STATES TO EUROPE:</b>			
Canned and refrigerated foods .....	121	71	123
Canned foods, miscellaneous .....	1	1	3
Refrigerated foods .....	120	70	120
Fish .....	54	4	5
Fruit, excluding bananas .....	11	10	40
Other and unclassified .....	55	56	75
Chemicals and petroleum chemicals, miscellaneous .....	66	65	95
Coal and coke .....	56	102	601
Grains .....	137	344	137
Rice .....	119	298	5
Wheat .....	18	46	132
Lumber and products .....	395	566	636
Boards and planks .....	141	222	222
Plywood, veneers, composition board .....	38	75	134
Pulpwood .....	201	217	257
Other and unclassified .....	15	52	23
Manufactures of iron and steel, miscellaneous .....	.....	2	.....
Minerals, miscellaneous .....	477	434	408
Borax .....	410	411	385
Sulfur .....	67	23	23
Nitrates, phosphates, and potash .....	9	1	1
Fishmeal .....	9	1	1
Ores and metals .....	48	81	112
Ores .....	3	43	68
Copper .....	.....	.....	50
Lead .....	.....	.....	4
Other and unclassified .....	3	43	14

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>WEST COAST UNITED STATES TO EUROPE—Continued</b>			
Ores and metals—Continued			
Metals.....	45	38	44
Aluminum .....	27	8	.....
Copper .....	11	30	41
Lead .....	.....	.....	1
Tin, including tinplate .....	.....	.....	2
Other and unclassified .....	7	.....	.....
Other agricultural commodities.....	21	102	44
Beans, edible .....	.....	1	.....
Cotton, raw.....	21	41	40
Molasses.....	.....	43	.....
Oilseeds .....	.....	17	4
Petroleum and products.....	1,502	1,538	1,884
Diesel oil .....	99	.....	72
Petroleum coke.....	1,279	1,538	1,512
Residual fuel oil .....	123	.....	195
Other and unclassified .....	1	.....	105
Miscellaneous .....	770	669	700
Clay, fire and china .....	11	16	21
Groceries, miscellaneous .....	.....	2	1
Oil, vegetable .....	15	6	7
Paper and paper products .....	26	55	56
Slag.....	15	.....	.....
All other and unclassified .....	703	590	615
Total.....	<u>3,602</u>	<u>3,975</u>	<u>4,741</u>
<b>WEST COAST UNITED STATES TO AFRICA.</b>			
Chemicals and petroleum chemicals, miscellaneous .....	.....	.....	1
Coke, coal type .....	.....	.....	53
Grains.....	576	636	506
Rice.....	185	.....	21
Wheat .....	391	583	485
Soybeans .....	.....	53	.....
Lumber and products, miscellaneous .....	.....	15	2
Minerals, miscellaneous .....	112	128	139
Sulfur .....	47	101	139
Soda and sodium compound .....	65	27	.....
Petroleum and products, miscellaneous .....	.....	28	.....
Miscellaneous .....	58	15	24
Flour, wheat .....	.....	.....	20
Oil, vegetable .....	.....	10	.....
All other and unclassified .....	58	5	4
Total.....	<u>746</u>	<u>822</u>	<u>725</u>
<b>WEST COAST CANADA TO EAST COAST UNITED STATES:</b>			
Chemicals and petroleum chemicals, miscellaneous .....	257	181	154
Coal and coke, coal type .....	74	.....	.....
Lumber and products .....	1,605	1,196	1,080
Boards and planks .....	1,520	1,188	1,000
Pulpwood .....	35	7	17
Other and unclassified .....	50	1	63
Minerals, miscellaneous .....	.....	49	11
Sulfur .....	.....	49	11
Nitrates, phosphates, potash .....	280	124	133
Ammonium compounds .....	.....	.....	14
Fertilizers, miscellaneous .....	.....	.....	29
Potash .....	280	124	90

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
WEST COAST CANADA TO EAST COAST UNITED STATES—Continued			
Ores and metals .....	1	.....	11
Other and unclassified .....	1	.....	11
Petroleum and products .....	100	85	213
Crude oil .....	56	.....	108
Diesel oil .....	44	85	53
Others and unclassified .....	.....	.....	52
Miscellaneous .....	21	11	29
All other and unclassified .....	21	11	29
Total .....	<u>2,338</u>	<u>1,646</u>	<u>1,631</u>
WEST COAST CANADA TO EAST COAST SOUTH AMERICA:			
Coal .....	194	.....	30
Grains .....	285	51	21
Barley .....	.....	.....	21
Wheat .....	285	51	.....
Lumber and products .....	61	56	32
Pulpwood .....	61	56	29
Other and unclassified .....	.....	.....	3
Minerals, miscellaneous .....	265	256	120
Sulfur .....	250	256	120
Other and unclassified .....	15	.....	.....
Nitrates, phosphates, and potash .....	19	34	20
Fertilizers, unclassified .....	.....	.....	1
Potash .....	18	32	19
Other and unclassified .....	1	2	.....
Ores and metals, miscellaneous .....	17	2	.....
Miscellaneous .....	44	27	35
Paper and paper products .....	38	23	22
All other and unclassified .....	6	4	13
Total .....	<u>885</u>	<u>426</u>	<u>258</u>
WEST COAST CANADA TO WEST INDIES:			
Chemicals and petroleum chemicals, miscellaneous .....	2	2	36
Lumber and products .....	36	31	29
Boards and planks .....	36	31	29
Nitrates, phosphates, and potash .....	17	37	17
Minerals, miscellaneous .....	136	121	69
Sulfur .....	136	121	69
Other agricultural commodities .....	.....	31	.....
Peas, dry .....	.....	31	.....
Petroleum and products .....	10	150	52
Other and unclassified .....	10	150	52
Miscellaneous .....	24	4	2
Paper and paper products .....	17	4	2
All other and unclassified .....	7	.....	.....
Total .....	<u>225</u>	<u>376</u>	<u>205</u>
WEST COAST CANADA TO EUROPE:			
Canned and refrigerated foods, miscellaneous .....	24	34	31
Chemicals and petroleum chemicals, miscellaneous .....	198	331	173
Coal and coke .....	2,103	1,446	766
Grains .....	664	877	665
Barley .....	354	483	272
Wheat .....	310	278	361
Other and unclassified .....	.....	116	32
Lumber and products .....	1,926	2,304	2,037
Boards and planks .....	642	1,064	886

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>WEST COAST CANADA TO EUROPE—Continued</b>			
Lumber and products—Continued			
Plywood, veneers, composition board.....	192	171	175
Pulpwood.....	968	923	875
Other and unclassified.....	124	146	101
Machinery and equipment.....	.....	.....	3
Machinery and equipment, miscellaneous.....	.....	.....	3
Minerals, miscellaneous.....	<u>1,281</u>	<u>1,021</u>	<u>677</u>
Asbestos.....	1	3	2
Sulfur.....	1,280	1,018	675
Nitrates, phosphates, and potash.....	.....	1	18
Potash.....	.....	.....	14
Fishmeal.....	.....	1	4
Ores and metals.....	<u>49</u>	<u>55</u>	<u>87</u>
Ores.....	<u>21</u>	<u>17</u>	<u>30</u>
Copper.....	.....	6	12
Zinc.....	4	4	6
Other and unclassified.....	17	7	12
Metals.....	<u>28</u>	<u>38</u>	<u>57</u>
Aluminum.....	.....	1	.....
Copper.....	.....	.....	1
Lead.....	14	17	37
Zinc.....	14	19	15
Other and unclassified.....	.....	1	4
Other agricultural commodities.....	<u>80</u>	<u>294</u>	<u>57</u>
Oilseeds.....	68	291	51
Other and unclassified.....	12	3	6
Petroleum and products.....	<u>86</u>	<u>118</u>	<u>86</u>
Petroleum coke.....	66	103	84
Other and unclassified.....	20	15	2
Miscellaneous.....	<u>547</u>	<u>346</u>	<u>610</u>
Paper and paper products.....	305	157	357
All other and unclassified .....	<u>242</u>	<u>189</u>	<u>253</u>
Total.....	<u>6,958</u>	<u>6,827</u>	<u>5,210</u>
<b>WEST COAST CANADA TO AFRICA:</b>			
Chemicals and petroleum chemicals, miscellaneous.....	.....	.....	26
Coal and coke.....	.....	35	50
Grains.....	<u>547</u>	<u>659</u>	<u>53</u>
Wheat.....	<u>547</u>	<u>659</u>	<u>53</u>
Lumber and products.....	<u>264</u>	<u>299</u>	<u>312</u>
Boards and planks.....	253	261	265
Pulpwood.....	11	29	18
Other and unclassified.....	.....	9	29
Minerals, miscellaneous.....	<u>1,189</u>	<u>855</u>	<u>786</u>
Sulfur.....	<u>1,189</u>	<u>855</u>	<u>786</u>
Nitrates, phosphates, and potash.....	15	13	7
Potash.....	15	13	7
Miscellaneous.....	55	38	2
All other and unclassified .....	<u>55</u>	<u>38</u>	<u>2</u>
Total.....	<u>2,070</u>	<u>1,899</u>	<u>1,236</u>
<b>WEST COAST CANADA TO ASIA (MIDDLE EAST):</b>			
Grains.....	.....	.....	.....
Barley.....	67	.....	.....
Wheat.....	<u>105</u>	.....	.....
Lumber and products.....	<u>13</u>	.....	2

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>WEST COAST CANADA TO ASIA (MIDDLE EAST)—Continued</b>			
Lumber and products—Continued			
Other and unclassified .....	13	.....	2
Minerals, miscellaneous .....	82	.....	123
Sulfur .....	82	.....	123
Total .....	<u>267</u>	<u>.....</u>	<u>125</u>
<b>WEST COAST CENTRAL AMERICA TO EAST COAST UNITED STATES:</b>			
Canned and refrigerated foods .....	34	114	162
Refrigerated foods .....	34	114	162
Bananas .....	32	114	161
Other and unclassified .....	2	.....	1
Minerals, miscellaneous .....	58	203	150
Salt .....	58	194	150
Sulfur .....	.....	9	.....
Nitrates, phosphates, and potash .....	26	4	9
Fishmeal .....	26	4	9
Ores and metals, miscellaneous .....	.....	.....	23
Other agricultural commodities .....	<u>558</u>	<u>666</u>	<u>548</u>
Coffee .....	27	33	43
Molasses .....	188	215	189
Sugar .....	341	416	316
Other and unclassified .....	2	2	.....
Petroleum and products .....	46	6	5
Miscellaneous .....	<u>39</u>	<u>6</u>	<u>12</u>
Oil, vegetable .....	.....	.....	7
All other and unclassified .....	<u>39</u>	<u>6</u>	<u>5</u>
Total .....	<u>761</u>	<u>999</u>	<u>909</u>
<b>WEST COAST CENTRAL AMERICA TO EAST COAST CENTRAL AMERICA:</b>			
Grains, miscellaneous .....	.....	43	21
Nitrates, phosphates, and potash .....	<u>310</u>	<u>85</u>	<u>143</u>
Phosphates .....	302	87	143
Fertilizer, unclassified .....	8	2	.....
Petroleum and products .....	<u>7</u>	<u>17</u>	.....
Diesel oil .....	5	16	.....
Gasoline .....	1	1	.....
Kerosene .....	1	.....	.....
Miscellaneous .....	<u>7</u>	<u>12</u>	<u>2</u>
All other and unclassified .....	<u>7</u>	<u>12</u>	<u>2</u>
Total .....	<u>324</u>	<u>159</u>	<u>166</u>
<b>WEST COAST CENTRAL AMERICA TO WEST INDIES:</b>			
Canned and refrigerated foods .....	78	24	63
Refrigerated foods, miscellaneous .....	78	24	63
Lumber and products .....	<u>23</u>	<u>22</u>	<u>41</u>
Boards and planks .....	23	19	41
Other and unclassified .....	.....	3	.....
Other agricultural commodities .....	<u>26</u>	<u>19</u>	<u>43</u>
Molasses .....	6	.....	29
Other and unclassified .....	20	19	14
Petroleum and products, miscellaneous .....	<u>29</u>	<u>123</u>	.....
Miscellaneous .....	<u>22</u>	<u>16</u>	<u>21</u>
All other and unclassified .....	<u>22</u>	<u>16</u>	<u>21</u>
Total .....	<u>178</u>	<u>204</u>	<u>168</u>

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>WEST COAST CENTRAL AMERICA TO EUROPE:</b>			
Canned and refrigerated foods . . . . .	89	99	120
Refrigerated foods . . . . .	89	99	120
Bananas . . . . .	43	76	101
Other and unclassified . . . . .	46	23	19
Chemicals and petroleum chemicals, miscellaneous . . . . .	6	. . . . .	20
Grains, miscellaneous . . . . .	. . . . .	13	. . . . .
Lumber and products . . . . .	9	9	16
Boards and planks . . . . .	9	9	15
Other and unclassified . . . . .	. . . . .	. . . . .	1
Manufactures of iron and steel, miscellaneous . . . . .	. . . . .	15	15
Nitrates, phosphates, and potash . . . . .	. . . . .	4	1
Fertilizers, unclassified . . . . .	. . . . .	4	. . . . .
Fishmeal . . . . .	. . . . .	. . . . .	1
Ores and metals, miscellaneous . . . . .	141	205	183
Ores . . . . .	140	201	153
Copper . . . . .	135	196	125
Other and unclassified . . . . .	5	5	28
Metals . . . . .	1	4	30
Copper . . . . .	. . . . .	. . . . .	25
Other and unclassified . . . . .	1	4	5
Other agricultural commodities . . . . .	340	169	257
Beans, edible . . . . .	. . . . .	5	4
Cocoa and cocoa beans . . . . .	. . . . .	6	. . . . .
Coffee . . . . .	123	79	77
Cotton, raw . . . . .	69	46	45
Molasses . . . . .	59	5	86
Oilseeds . . . . .	7	14	6
Peas, dry . . . . .	37	7	17
Sugar . . . . .	45	7	22
Miscellaneous . . . . .	75	99	124
Seeds, excluding oilseeds . . . . .	2	3	. . . . .
Textiles . . . . .	1	. . . . .	5
Tobacco and manufactures . . . . .	1	1	1
All other and unclassified . . . . .	71	95	118
Total . . . . .	<u>660</u>	<u>613</u>	<u>736</u>
<b>WEST COAST CENTRAL AMERICA TO AFRICA:</b>			
Canned and refrigerated foods . . . . .	6	. . . . .	1
Bananas . . . . .	6	. . . . .	. . . . .
Other and unclassified . . . . .	. . . . .	. . . . .	1
Lumber and products, miscellaneous . . . . .	11	9	2
Manufactures of iron and steel . . . . .	. . . . .	54	64
Other agricultural commodities . . . . .	36	66	35
Coffee . . . . .	1	11	19
Peas, dried . . . . .	6	. . . . .	6
Sugar, raw . . . . .	29	55	. . . . .
Other and unclassified . . . . .	. . . . .	. . . . .	10
Miscellaneous . . . . .	1	1	2
All other and unclassified . . . . .	1	1	2
Total . . . . .	<u>54</u>	<u>130</u>	<u>104</u>
<b>WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES:</b>			
Canned and refrigerated foods . . . . .	737	561	504
Canned foods, miscellaneous . . . . .	18	24	10
Refrigerated foods . . . . .	<u>719</u>	<u>537</u>	<u>494</u>

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES—Continued			
Canned and refrigerated foods—Continued			
Bananas .....	435	305	315
Fish.....	31	27	23
Fruit, excluding bananas.....	243	194	141
Refrigerated, miscellaneous.....	10	11	15
Chemicals and petroleum chemicals, miscellaneous .....	11	28	24
Lumber and products .....	57	28	19
Boards and planks .....	24	11	8
Other and unclassified .....	33	17	11
Manufactures of iron and steel, miscellaneous .....	26	5	3
Minerals, miscellaneous .....	467	472	382
Salt .....	462	460	377
Soda and sodium compounds .....	5	11	5
Other and unclassified .....	.....	1	.....
Nitrates, phosphates, and potash .....	255	135	166
Fishmeal.....	114	33	42
Nitrate of soda .....	141	102	120
Potash .....	.....	.....	4
Ores and metals .....	630	555	742
Ores .....	399	232	319
Copper .....	26	11	10
Iron.....	217	19	.....
Lead .....	20	36	25
Tin .....	3	9	1
Zinc.....	29	20	11
Other and unclassified .....	104	137	272
Metals.....	231	323	423
Copper .....	178	267	367
Lead .....	10	14	20
Zinc.....	31	30	33
Other and unclassified .....	12	12	3
Other agricultural commodities .....	647	588	596
Beans, edible .....	1	.....	1
Cocoa and cacao beans .....	61	27	19
Coffee .....	143	175	124
Cotton, raw .....	3	5	3
Molasses.....	172	139	301
Sugar .....	267	242	148
Petroleum and products .....	4,596	5,603	5,076
Crude oil .....	2,686	3,567	3,724
Fuel oil, residual.....	1,743	1,725	1,224
Diesel oil .....	49	45	.....
Gasoline .....	118	113	20
Other and unclassified .....	.....	153	108
Miscellaneous .....	234	199	126
Fibers, plant .....	4	5	6
Groceries, miscellaneous .....	6	7	4
Oil, fish .....	3	.....	.....
Paper and products .....	9	9	3
Textiles.....	8	11	10
All other and unclassified .....	204	167	106
Total .....	7,660	8,174	7,638
WEST COAST SOUTH AMERICA TO EAST COAST CANADA			
Nitrates, phosphates, and potash .....	4	4	10
Nitrate of soda .....	4	4	10
Ores and metals, miscellaneous .....	97	76	52
Other agricultural commodities .....	.....	32	40

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

		<i>Fiscal year</i>		
		1985	1984	1983
WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES—Continued				
Other agricultural commodities—Continued				
Molasses .....		19	.....	
Sugar .....		12	39	
Other and unclassified .....		1	1	
Minerals, miscellaneous .....		.....	30	
Salt .....		.....	30	
Petroleum and products .....		52	55	
Crude oil .....		52	55	
Miscellaneous .....		6	4	1
All other and unclassified .....		6	4	1
Total .....		107	168	188
WEST COAST SOUTH AMERICA TO EAST COAST CENTRAL AMERICA:				
Manufactures of iron and steel, miscellaneous .....		2	5	21
Ores and metals .....		8	52	24
Metals, miscellaneous .....		5	5	11
Ores, miscellaneous .....		3	47	13
Other agricultural commodities .....		38	2	12
Sugar .....		.....	12	
Other and unclassified .....		38	2	.....
Petroleum and products .....		662	939	821
Crude oil .....		629	939	821
Other and unclassified .....		33	.....	.....
Miscellaneous .....		3	1	12
Paper and paper products .....		.....	.....	2
All other and unclassified .....		3	1	10
Total .....		713	999	890
WEST COAST SOUTH AMERICA TO EAST COAST SOUTH AMERICA:				
Canned and refrigerated foods .....		7	5	5
Canned foods, miscellaneous .....		2	.....	.....
Fruit refrigerated, excluding bananas .....		1	.....	3
Other and unclassified .....		4	5	2
Chemicals and petroleum chemicals, miscellaneous .....		11	13	3
Lumber and products, miscellaneous .....		28	75	44
Manufactures of iron and steel, miscellaneous .....		.....	1	1
Ores and metals, miscellaneous .....		82	51	54
Other agricultural commodities .....		110	40	27
Beans, edible .....		2	23	26
Sugar .....		80	16	.....
Other and unclassified .....		28	1	1
Petroleum and products .....		995	922	1,537
Crude oil .....		905	907	1,528
Gasoline .....		90	10	9
Other and unclassified .....		.....	5	.....
Miscellaneous .....		88	44	31
Oil, fish .....		1	4	.....
Oil, vegetable .....		16	6	3
Paper and paper products .....		17	15	9
All other and unclassified .....		54	19	19
Total .....		1,321	1,151	1,702
WEST COAST SOUTH AMERICA TO WEST INDIES:				
Canned and refrigerated foods .....		54	44	56
Canned foods, miscellaneous .....		1	4	.....

Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>WEST COAST SOUTH AMERICA TO WEST INDIES—Continued</b>			
Canned and refrigerated foods—Continued			
Fish, refrigerated .....	53	40	55
Other and unclassified .....	.....	2	12
Grains, miscellaneous .....	.....	.....	.....
Lumber and products .....	61	26	27
Boards and planks .....	57	22	27
Other and unclassified .....	4	4	.....
Nitrates, phosphates, and potash .....	72	9	12
Fishmeal.....	20	9	12
Phosphates.....	52	.....	.....
Other agricultural commodities .....	.....	.....	18
Sugar .....	.....	.....	16
Other and unclassified .....	.....	.....	2
Petroleum and products .....	3,818	3,392	2,059
Crude oil .....	2,875	2,624	1,650
Diesel oil .....	44	.....	28
Fuel oil, residual .....	899	730	343
Other and unclassified .....	.....	38	38
Miscellaneous .....	10	27	27
All other and unclassified .....	10	27	27
Total .....	<u>4,015</u>	<u>3,500</u>	<u>2,211</u>
<b>WEST COAST SOUTH AMERICA TO EUROPE:</b>			
Canned and refrigerated foods .....	1,018	699	723
Canned foods, miscellaneous .....	15	24	25
Refrigerated foods .....	<u>1,003</u>	<u>675</u>	<u>698</u>
Bananas .....	307	238	278
Fish, refrigerated .....	506	297	293
Fruit, excluding bananas .....	140	139	116
Other and unclassified .....	50	1	11
Chemicals and petroleum chemicals, miscellaneous .....	5	9	9
Coke, coal type .....	.....	.....	3
Grains, miscellaneous .....	.....	45	37
Lumber and products .....	123	118	172
Boards and planks .....	22	13	7
Pulpwood.....	96	98	153
Other and unclassified .....	5	7	12
Manufactures of iron and steel .....	.....	11	.....
Nitrates, phosphates, and potash .....	<u>1,171</u>	<u>733</u>	<u>895</u>
Ammonium compounds .....	.....	23	.....
Fertilizers, unclassified .....	.....	.....	11
Fishmeal.....	1,073	646	737
Nitrate of soda .....	95	64	147
Potash .....	3	.....	.....
Ores and metals .....	<u>1,664</u>	<u>1,415</u>	<u>1,564</u>
Ores .....	<u>918</u>	<u>759</u>	<u>730</u>
Copper .....	176	111	103
Iron .....	112	.....	53
Lead .....	100	101	64
Tin .....	22	21	30
Zinc .....	420	500	448
Other and unclassified .....	88	26	32
Metals .....	<u>746</u>	<u>656</u>	<u>834</u>
Copper .....	581	563	667
Lead .....	52	34	41
Zinc .....	92	40	54
Other and unclassified .....	21	19	72

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>WEST COAST SOUTH AMERICA TO EUROPE—Continued</b>			
Other agricultural commodities . . . . .	149	209	357
Cocoa and cacao beans . . . . .	11	12	9
Coffee . . . . .	111	143	189
Cotton, raw . . . . .	21	11	30
Molasses . . . . .	13	.....	.....
Oilseeds . . . . .	5	1	1
Sugar . . . . .	12	107	107
Wool, raw . . . . .	6	10	16
Other and unclassified . . . . .	3	5	5
Petroleum and products . . . . .	106	.....	3
Fuel oil, residual . . . . .	86	.....	.....
Other and unclassified . . . . .	20	.....	3
Miscellaneous . . . . .	490	346	253
Groceries, miscellaneous . . . . .	6	12	6
Oil, fish . . . . .	106	109	54
Paper and paper products . . . . .	1	13	5
Seeds, excluding oilseeds . . . . .	1	1	.....
Textiles . . . . .	7	7	9
All other and unclassified . . . . .	369	204	179
Total . . . . .	4,726	3,585	4,016
<b>HAWAII TO EAST COAST UNITED STATES:</b>			
Other agricultural commodities . . . . .	168	129	196
Sugar . . . . .	168	129	196
Miscellaneous . . . . .	7	12	19
All other and unclassified . . . . .	7	12	19
Total . . . . .	175	141	215
<b>OCEANIA TO EAST COAST UNITED STATES:</b>			
Canned and refrigerated foods . . . . .	324	311	378
Refrigerated foods . . . . .	324	311	378
Dairy products . . . . .	.....	.....	1
Fruit, refrigerated . . . . .	20	8	61
Meat . . . . .	14	23	12
Other and unclassified . . . . .	290	280	303
Chemicals and petroleum chemicals, miscellaneous . . . . .	1	10	9
Manufactures of iron and steel, miscellaneous . . . . .	22	64	62
Ores and metals . . . . .	1,492	1,175	418
Ores . . . . .	1,488	1,156	376
Alumina/bauxite . . . . .	894	611	31
Iron . . . . .	.....	53	.....
Lead . . . . .	5	5	53
Manganese . . . . .	57	61	47
Other and unclassified . . . . .	532	426	245
Metals . . . . .	4	19	42
Aluminum metal . . . . .	.....	.....	25
Lead metal . . . . .	4	11	11
Zinc . . . . .	.....	.....	1
Other and unclassified . . . . .	.....	8	5
Other agricultural commodities . . . . .	400	445	311
Molasses . . . . .	273	203	101
Sugar . . . . .	127	242	210
Petroleum and products . . . . .	112	241	100
Fuel oil, residual . . . . .	32	160	100
Lubricating oil . . . . .	30	52	.....
Other and unclassified . . . . .	50	81	.....

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

	[Thousands of long tons]		
	1985	1984	Fiscal year 1983
<b>OCEANIA TO EAST COAST UNITED STATES—Continued</b>			
Miscellaneous .....	379	382	372
All other and unclassified .....	379	382	372
Total .....	2,730	2,628	1,650
<b>OCEANIA TO EAST COAST CANADA:</b>			
Canned and refrigerated foods .....	40	33	55
Refrigerated foods .....	40	33	55
Other and unclassified .....	40	33	55
Ores and metals .....	24	76	25
Ores, miscellaneous .....	24	76	25
Other agricultural commodities .....	298	347	216
Sugar .....	298	347	216
Miscellaneous .....	56	35	54
All other and unclassified .....	56	35	54
Total .....	418	491	350
<b>OCEANIA TO EAST COAST CENTRAL AMERICA:</b>			
Canned and refrigerated foods, miscellaneous .....	37	28	12
Coal .....	.....	22	.....
Ores and metals .....	136	37	86
Manganese ore .....	93	22	39
Ores, miscellaneous .....	43	15	47
Miscellaneous .....	.....	4	6
All other and unclassified .....	.....	4	6
Total .....	173	91	104
<b>OCEANIA TO WEST INDIES:</b>			
Canned and refrigerated foods .....	93	143	74
Canned foods, miscellaneous .....	8	10	4
Refrigerated foods .....	85	133	70
Dairy products .....	14	6	5
Fish, refrigerated .....	56	113	50
Meat .....	.....	5	8
Other and unclassified .....	15	9	7
Petroleum and products .....	47	39	.....
Miscellaneous .....	13	19	11
All other and unclassified .....	13	19	11
Total .....	153	201	85
<b>OCEANIA TO EUROPE:</b>			
Canned and refrigerated foods .....	160	186	185
Canned foods, miscellaneous .....	5	.....	.....
Refrigerated foods .....	155	186	185
Dairy products .....	2	.....	6
Fruit, excluding bananas .....	123	92	53
Meat .....	20	2	.....
Other and unclassified .....	10	92	126
Chemicals and petroleum chemicals, miscellaneous .....	227	115	.....
Grains, miscellaneous .....	.....	74	.....
Ores and metals .....	37	72	155
Ores .....	29	58	79
Alumina/bauxite .....	.....	38	.....
Copper .....	.....	.....	71
Other and unclassified .....	29	20	8
Metals .....	8	14	76
Copper .....	.....	.....	35
Zinc .....	.....	.....	15

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	Fiscal year		
	1985	1984	1983
<b>OCEANIA TO EUROPE—Continued</b>			
Ores and metals—Continued			
Other and unclassified . . . . .	8	14	26
Other agricultural commodities . . . . .	<u>224</u>	<u>271</u>	<u>251</u>
Copra . . . . .	. . . . .	7	11
Molasses . . . . .	30	20	69
Skins and hides . . . . .	. . . . .	. . . . .	1
Sugar . . . . .	184	236	166
Wool, raw . . . . .	10	8	4
Miscellaneous . . . . .	<u>247</u>	<u>287</u>	<u>296</u>
Groceries, miscellaneous . . . . .	. . . . .	. . . . .	1
Oil, coconut . . . . .	4	8	5
Oil, vegetable . . . . .	7	26	24
Tallow . . . . .	16	32	5
All other and unclassified . . . . .	<u>220</u>	<u>221</u>	<u>261</u>
Total . . . . .	<u>895</u>	<u>1,005</u>	<u>887</u>
<b>ASIA TO EAST COAST UNITED STATES:</b>			
Canned and refrigerated foods . . . . .	135	175	205
Canned foods . . . . .	<u>50</u>	<u>90</u>	<u>64</u>
Fruit . . . . .	45	85	45
Vegetables . . . . .	. . . . .	1	6
Other and unclassified . . . . .	5	5	13
Refrigerated foods . . . . .	<u>85</u>	<u>85</u>	<u>141</u>
Fruit, refrigerated . . . . .	. . . . .	9	78
Other and unclassified . . . . .	85	76	63
Chemicals and petroleum chemicals, miscellaneous . . . . .	206	69	108
Coal and coke . . . . .	447	183	. . . . .
Lumber and products . . . . .	<u>745</u>	<u>693</u>	<u>641</u>
Boards and planks . . . . .	150	58	37
Plywood, veneers, composition board . . . . .	541	591	585
Other and unclassified . . . . .	54	44	19
Machinery and equipment . . . . .	<u>1,519</u>	<u>1,369</u>	<u>1,210</u>
Agricultural machinery . . . . .	17	24	11
Automobiles, trucks, accessories and parts . . . . .	1,369	1,275	1,131
Construction machinery and equipment . . . . .	88	45	19
Electrical machinery and apparatus . . . . .	9	12	13
Other and unclassified . . . . .	36	13	36
Manufactures of iron and steel . . . . .	<u>4,596</u>	<u>4,931</u>	<u>2,905</u>
Angles, shapes, and sections . . . . .	399	277	348
Nails, tacks, and spikes . . . . .	64	102	59
Plates, sheets, and coils . . . . .	1,624	1,852	1,035
Tubes, pipes, and fittings . . . . .	741	951	564
Wire, bars, and rods . . . . .	221	320	174
Other and unclassified . . . . .	1,547	1,429	725
Nitrates, phosphates, and potash . . . . .	2	2	2
Fertilizers, unclassified . . . . .	2	2	2
Ores and metals . . . . .	<u>1,418</u>	<u>1,054</u>	<u>901</u>
Ores . . . . .	<u>1,344</u>	<u>1,018</u>	<u>835</u>
Alumina/bauxite . . . . .	168	143	43
Chrome . . . . .	49	28	11
Manganese . . . . .	. . . . .	7	1
Other and unclassified . . . . .	1,127	840	780
Metals . . . . .	<u>74</u>	<u>36</u>	<u>66</u>
Aluminum . . . . .	43	30	29
Copper . . . . .	2	1	7
Iron . . . . .	1	. . . . .	1
Other and unclassified . . . . .	28	5	29

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>ASIA TO EAST COAST UNITED STATES—Continued</b>			
Other agricultural commodities . . . . .	348	532	323
Coffee . . . . .	3	5	8
Copra . . . . .	2	3	1
Rubber, raw . . . . .	94	92	56
Sugar . . . . .	248	428	251
Other and unclassified . . . . .	1	4	7
Petroleum and products, miscellaneous . . . . .	235	676	141
Miscellaneous . . . . .	<u>5,241</u>	<u>4,660</u>	<u>3,611</u>
Bricks and tile . . . . .	8	3	1
Clay, fire and china . . . . .	25	1	2
Fibers, plant . . . . .	.....	1	1
Glass and glassware . . . . .	.....	2	4
Groceries, miscellaneous . . . . .	6	10	7
Oil, coconut . . . . .	32	43	63
Oil, vegetable . . . . .	37	5	32
Porcelainware . . . . .	.....	2	2
Rubber, manufactured . . . . .	26	33	41
Textiles . . . . .	5	16	6
All other and unclassified . . . . .	<u>5,102</u>	<u>4,544</u>	<u>3,452</u>
Total . . . . .	<u>14,892</u>	<u>14,344</u>	<u>10,047</u>
<b>ASIA TO EAST COAST CANADA:</b>			
Canned and refrigerated foods, miscellaneous . . . . .	4	5	1
Machinery and equipment . . . . .	1	.....	6
Other and unclassified . . . . .	1	.....	6
Manufactures of iron and steel . . . . .	26	7	30
Plates, sheets, and coils . . . . .	15	.....	10
Tubes, pipes, and fittings . . . . .	4	4	9
Wire, bars, and rods . . . . .	.....	.....	2
Other and unclassified . . . . .	7	3	9
Ores and metals, miscellaneous . . . . .	97	55	6
Ores . . . . .	89	55	6
Alumina/bauxite . . . . .	76	55	6
Other and unclassified . . . . .	13	.....	.....
Metals . . . . .	8	.....	.....
Other and unclassified . . . . .	8	.....	.....
Miscellaneous . . . . .	<u>296</u>	<u>327</u>	<u>278</u>
All other and unclassified . . . . .	<u>296</u>	<u>327</u>	<u>278</u>
Total . . . . .	<u>424</u>	<u>394</u>	<u>321</u>
<b>ASIA TO EAST COAST CENTRAL AMERICA:</b>			
Chemicals and petroleum chemicals, miscellaneous . . . . .	.....	.....	70
Grains, miscellaneous . . . . .	42	21	.....
Machinery and equipment, miscellaneous . . . . .	3	3	.....
Manufactures of iron and steel, miscellaneous . . . . .	41	8	14
Ores and metals, miscellaneous . . . . .	.....	.....	58
Ores, miscellaneous . . . . .	.....	.....	58
Miscellaneous . . . . .	9	15	27
All other and unclassified . . . . .	9	15	27
Total . . . . .	<u>95</u>	<u>47</u>	<u>169</u>
<b>ASIA TO EAST COAST SOUTH AMERICA:</b>			
Chemicals and petroleum chemicals, miscellaneous . . . . .	.....	2	4
Coal and coke . . . . .	33	.....	.....
Grains, miscellaneous . . . . .	48	21	.....
Machinery and equipment . . . . .	39	42	72
Automobiles, trucks, accessories and parts . . . . .	14	16	19
Construction machinery and equipment . . . . .	5	6	32

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>ASIA TO EAST COAST SOUTH AMERICA—Continued</b>			
Machinery and equipment—Continued			
Electrical machinery and apparatus.....	12	9	11
Other and unclassified.....	8	11	10
Manufactures of iron and steel .....	223	161	230
Plates, sheets, and coils .....	62	72	91
Tubes, pipes, and fittings .....	128	46	86
Other and unclassified .....	33	43	53
Nitrates, phosphates, and potash.....	4	.....	4
Fertilizers, unclassified .....	4	.....	4
Ores and metals .....	26	15	32
Ores .....	20	2	22
Other and unclassified .....	20	2	22
Metals .....	6	13	10
Tin, including tinplate .....	1	6	3
Other and unclassified .....	5	7	7
Other agricultural commodities .....	2	3	4
Rubber, raw .....	2	3	4
Petroleum and products .....	.....	.....	2
Other and unclassified .....	.....	.....	2
Miscellaneous .....	176	157	186
Resin.....	1	1	1
Rubber, manufactured.....	3	1	6
Textiles.....	1	1	2
All other and unclassified .....	171	136	176
Total .....	<u>551</u>	<u>380</u>	<u>534</u>
<b>ASIA TO CRISTOBAL, R.P.:</b>			
Machinery and equipment .....	7	12	4
Electrical machinery and apparatus.....	1	2	1
Other and unclassified .....	6	10	3
Manufactures of iron and steel, miscellaneous .....	26	22	20
Miscellaneous .....	100	93	81
Textiles .....	.....	1	2
All other and unclassified .....	100	92	79
Total .....	<u>133</u>	<u>127</u>	<u>105</u>
<b>ASIA TO WEST INDIES:</b>			
Canned and refrigerated foods .....	51	50	43
Canned foods, miscellaneous .....	33	24	30
Refrigerated foods .....	18	26	13
Fish, refrigerated .....	16	24	13
Other and unclassified .....	2	2	.....
Chemicals and petroleum chemicals, miscellaneous .....	13	10	7
Coal and coke .....	18	8	21
Grains .....	118	94	116
Corn .....	1	6	.....
Rice.....	104	83	106
Soybeans .....	10	5	10
Grains, miscellaneous .....	3	.....	.....
Lumber and products .....	196	184	133
Boards and planks .....	165	160	96
Plywood veneers .....	13	13	19
Pulpwood.....	10	10	12
Other and unclassified .....	8	1	6
Machinery and equipment .....	232	182	158
Automobiles, trucks, accessories and parts .....	<u>193</u>	<u>161</u>	<u>144</u>

**Table 11.—Important Commodity Shipments Over Principal Trade Routes  
Pacific to Atlantic—Continued**

[Thousands of long tons]

	<i>Fiscal year</i>		
	1985	1984	1983
<b>ASIA TO WEST INDIES—Continued</b>			
Machinery and equipment—Continued			
Electrical machinery and apparatus.....	15	5	3
Other and unclassified .....	24	16	11
Manufactures of iron and steel .....	118	124	152
Plates, sheets, and coils .....	63	67	70
Tubes, pipes, and fittings .....	24	32	30
Other and unclassified .....	31	25	52
Nitrates, phosphates and potash .....	2	33	.....
Fertilizers, unclassified.....	1	31	.....
Fishmeal.....	1	2	.....
Ores and metals .....	54	14	8
Metals, miscellaneous .....	23	7	4
Ores, miscellaneous .....	31	7	4
Petroleum and products .....	119	121	.....
Diesel oil .....	.....	4	.....
Gasoline .....	119	117	.....
Miscellaneous .....	400	291	316
Bricks and tile.....	2	3	3
Glass and glassware .....	3	2	5
Groceries, miscellaneous .....	2	.....	1
Paper and paper products.....	12	13	16
Porcelainware .....	1	1	1
Resin.....	1	.....	1
Rubber, manufactured.....	4	4	1
Textiles.....	11	6	6
All other and unclassified .....	364	262	282
Total .....	1,321	1,111	954
<b>ASIA TO EUROPE:</b>			
Canned and refrigerated foods.....	16	4	15
Chemicals and petroleum chemicals, miscellaneous .....	10	3	3
Coke, coal type .....	.....	.....	32
Machinery and equipment .....	2	4	3
Automobiles, trucks, accessories and parts .....	2	2	3
Other and unclassified .....	.....	2	.....
Ores and metals, miscellaneous .....	3	2	.....
Other agricultural commodities .....	.....	.....	23
Sugar raw .....	.....	.....	23
Petroleum and products, miscellaneous .....	1	4	.....
Miscellaneous .....	101	83	85
Oil, coconut.....	4	24	19
Oil, fish .....	44	37	31
Oil, vegetable.....	5	2	.....
All other and unclassified .....	48	20	35
Total .....	133	100	161

Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1985

[Long tons]

Commodity	Atlantic to Pacific	Pacific to Atlantic	Total
Ammonium compounds . . . . .	652,535	14,831	667,366
Asbestos . . . . .	20,893	2,084	22,977
Asphalt . . . . .	74,178	1,257	75,435
Automobiles, trucks, and accessories . . . . .	341,043	1,589,005	1,930,048
Bananas . . . . .	· · · · ·	883,198	883,198
Barley . . . . .	54,836	421,135	475,971
Beans, edible . . . . .	6,852	56,802	63,654
Benzene . . . . .	5,955	68,644	74,599
Borax . . . . .	252	415,376	415,628
Bricks and tile . . . . .	40,764	13,184	53,948
Canned food products . . . . .	72,762	181,748	254,510
Carbon black . . . . .	28,745	4,531	33,276
Caustic soda . . . . .	713,583	4,748	718,331
Cement . . . . .	254,817	5,452	260,269
Chemicals, petroleum various . . . . .	802,744	69,089	871,833
Chemicals, various . . . . .	2,304,690	967,018	3,271,708
Clay, fire and china . . . . .	416,670	41,871	458,541
Coal and coke (excluding petroleum coke) . . . . .	8,552,849	2,929,159	11,482,008
Cocoa and cacao beans . . . . .	2,654	76,411	79,065
Coffee . . . . .	12,337	413,825	426,162
Coke, petroleum . . . . .	663,801	1,552,755	2,216,556
Copra and coconuts . . . . .	· · · · ·	11,103	11,103
Corn . . . . .	8,132,134	60,182	8,192,316
Cotton, raw . . . . .	12,477	145,839	158,316
Fertilizers, various . . . . .	1,890,776	67,468	1,958,244
Fibers, plant . . . . .	9,015	5,771	14,786
Fishmeal . . . . .	1,688	1,297,407	1,299,095
Flour, wheat . . . . .	122,116	574	122,690
Gasoline . . . . .	1,206,354	658,946	1,865,300
Glass and glassware . . . . .	20,310	4,512	24,822
Grains, various . . . . .	133,106	3,645	136,751
Groceries, various . . . . .	36,444	59,633	96,077
Infusorial earth . . . . .	2,748	3,105	5,853
Jet fuel . . . . .	477,932	11,500	489,432
Kerosene . . . . .	44,786	538	45,324
Liquefied gas . . . . .	712,686	27,575	740,261
Liquors . . . . .	23,175	21,270	44,445
Lumber and products (excluding pulpwood) . . . . .	68,506	4,171,965	4,240,471
Machinery, agricultural . . . . .	54,107	23,135	77,242
Machinery, construction . . . . .	78,969	113,338	192,307
Machinery, electrical . . . . .	36,282	39,069	75,351
Machinery, various . . . . .	45,632	58,103	103,735
Manufactures of iron and steel . . . . .	2,724,803	5,092,070	7,816,873
Metal, aluminum . . . . .	256,134	73,669	329,803
Metal, copper . . . . .	76,732	817,628	894,360
Metal, iron . . . . .	133,999	7,090	141,089
Metal, scrap . . . . .	2,317,810	5,080	2,322,890
Metals, various (including tinplate) . . . . .	81,782	342,771	424,553
Molasses . . . . .	4,896	780,604	785,500
Nitrate of soda . . . . .	34,230	239,848	274,078
Oats . . . . .	37,718	828	38,546
Oil, coconut . . . . .	1,792	54,465	56,257
Oil, crude . . . . .	3,396,864	9,028,521	12,425,385
Oil, diesel . . . . .	1,093,975	754,612	1,848,587
Oil, fish . . . . .	269	173,664	173,933
Oil, lube . . . . .	609,583	219,782	829,365
Oil, residual fuel . . . . .	2,378,333	3,629,019	6,007,352
Oil, vegetable . . . . .	190,142	150,756	340,898
Oilseeds . . . . .	66,826	124,692	191,518
Ore, alumina/bauxite . . . . .	227,281	1,144,973	1,372,254
Ore, copper . . . . .	13,164	414,601	427,765

**Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1985—Continued**

[Long tons]

Commodity	Atlantic to Pacific	Pacific to Atlantic	Total
Ore, iron .....	107,629	328,685	436,314
Ores, various .....	480,845	2,902,928	3,383,773
Paper and paper products.....	854,250	460,513	1,314,763
Peas, dry .....	313	62,919	63,232
Petroleum products, various.....	178,258	51,858	230,116
Phosphates .....	6,764,466	376,157	7,140,623
Potash .....	185,834	335,230	521,064
Pulpwood .....	513,527	1,472,388	1,985,915
Refrigerated food products (excluding bananas).....	386,132	2,136,718	2,522,850
Resin .....	312,195	3,317	315,512
Rice .....	93,236	516,386	609,622
Rubber, manufactured.....	20,870	33,877	54,747
Rubber, raw .....	1,344	98,451	99,795
Salt .....	76,664	524,279	600,943
Seeds, excluding oilseeds.....	573	11,808	12,381
Slag, clinkers, and dross .....	7,650	14,585	22,235
Soda and sodium compounds .....	108,870	197,959	306,829
Sorghum .....	2,268,805	.....	2,268,805
Soybeans .....	6,381,508	10,257	6,391,765
Sugar .....	1,273,371	1,799,189	3,072,560
Sulfur .....	15,776	3,051,335	3,067,111
Tallow .....	66,886	56,595	123,481
Textiles.....	64,789	38,280	103,069
Tobacco and manufactures .....	4,030	3,597	7,627
Toluene .....	28,165	44,059	72,224
Wax, paraffin .....	6,982	10,988	17,970
Wheat .....	3,742,070	1,655,974	5,398,044
Wool, raw .....	490	16,535	17,025
All other .....	8,426,881	8,725,957	17,152,838
Total .....	<u>74,150,945</u>	<u>64,492,298</u>	<u>138,643,243</u>

# Other Statistics

**Table 13.—Water Supply and Usage**

	<i>Fiscal year</i>		<i>Percentage of usage Fiscal year</i>	
	<i>1985</i>	<i>1984</i>	<i>1985</i>	<i>1984</i>
	<i>(Acre-Feet)</i>			
<b>MADDEN AND GATUN LAKE WATER SUPPLY:</b>				
Total runoff, Madden Lake Basin .....	1,866,707	2,160,415		
Evaporation from Madden Lake.....	45,164	44,821		
Municipal water use Madden Lake .....	83,275	81,865		
Available for Madden Lake usage .....	1,995,146	2,033,729		
Total runoff, Gatun Lake (area below Madden) .....	2,160,585	2,775,947		
Subtotal .....	4,155,731	4,809,676		
Evaporation from Gatun Lake .....	453,739	433,455		
Available for Gatun watershed usage .....	<u>3,701,992</u>	<u>4,376,221</u>		
<b>MADDEN LAKE WATER USAGE:</b>				
Hydroelectric power .....	1,648,530	1,457,438	82	81
Leakage.....	14,479	14,519	1	1
Spillway discharge .....	256,589	241,093	13	13
Municipal .....	83,275	81,865	4	5
Total Madden Lake usage .....	<u>2,002,873</u>	<u>1,794,960</u>	<u>100</u>	<u>100</u>
<b>GATUN LAKE WATER USAGE:</b>				
Hydroelectric power .....	1,089,761	1,711,708	29	43
Lockages, Gatun and Pedro Miguel.....	1,948,325	1,876,653	3	47
Municipal and other usages .....	100,173	94,975	3	2
Spillway discharge .....	565,909	303,007	15	8
Total Gatun Lake usage .....	<u>3,704,168</u>	<u>3,986,343</u>	<u>100</u>	<u>100</u>

**Table 14.—Dredging Operations—Fiscal Year 1985**

	(Cubic yards)	<i>Earth</i>	<i>Rock</i>	<i>Total</i>
Pacific District.....				
Central District .....	943,259	383,285		1,326,544
Atlantic District .....				
Grand Total.....	<u>943,259</u>	<u>383,285</u>		<u>1,326,544</u>

**Table 15.—Electrical Power Generated**(Gigawatt hours) <sup>1</sup>

	<i>Fiscal year</i>	
	1985	1984
<b>Generation:</b>		
Gatun hydro station .....	67	93
Madden hydro station .....	179	162
Thermal generating stations .....	283	347
Gross generated by Panama Canal Commission .....	529	602
Less station service usage .....	(13)	(13)
Net total generated by Panama Canal Commission .....	516	589
<b>Power Purchases:</b>		
Through interconnect from Panama .....	4	2
Net Energy charged for Wheeling .....	10	8
<b>Power Sales:</b>		
Through interconnect to Panama .....	(33)	(66)
Net power generated and purchases for Canal area only .....	497	533
Other power generated by military for own use .....	.....	.....
Total Canal area requirements .....	497	533
Power distributed to Comission's customers .....	462	488
Distribution losses .....	35	45
Peak load (thousands of kilowatts) .....	81	84
Date of peak load .....	May 3	Feb. 27
Canal area load factor <sup>2</sup> .....	70.0%	72.6%

<sup>1</sup> One gigawatt hour equal to 1 million kilowatt hours.<sup>2</sup> Total Canal area requirements divided by number of hours per year times peak load.**Table 16.—Fire Statistics**

	<i>Fiscal Year 1985</i>		<i>Fiscal Year 1984</i>	
	<i>Number of fires</i>	<i>Property loss</i>	<i>Number of fires</i>	<i>Property loss</i>
PCC .....	93	\$89,910	86	\$168,887
Armed Forces .....	315	90,078	329	36,280
Private (including ships) .....	55	520,012	61	372,066
R.P.* .....	275	19,295	104	50,830
Total .....	<u>738</u>	<u>\$719,295</u>	<u>580</u>	<u>\$628,063</u>
Value of Property involved in ship fires .....	\$216,160,238		\$103,418,187	
Value of Property involved in other fires .....	89,093,040		90,789,357	
Calls for emergency aid ** .....		3,812		2,729
Total number of calls (all types) responded to .....		4,756		3,453

\* Statistics started as of October 1, 1979 due to the Treaty implementation.

\*\* Includes Fire Apparatus and Ambulance.



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